160 Funktionsgleichungen für Parabeln in verschiedenen Formen, Scheitelpunkt und Achsenschnittpunkte

Nr.	$f(x)=a_2x^2+a_1x+a_0$	$f(x)=a_2(x-x_S)^2+y_S$	$S(x_S \mid y_S)$	$P_y(0 \mid y_s)$	$P_{x1}(x_1 \mid 0)$	$P_{x2}(x_2 \mid 0)$	Bemerkungen
001	$f(x)=x^2+\frac{1}{2}x+1$	$f(x)=\left(x+\frac{1}{4}\right)^2+\frac{15}{16}$	$S\left(-\frac{1}{4} \mid \frac{15}{16}\right)$	$P_y(0 \mid 1)$			keine Nullstellen
002	$f(x)=x^2+x-3$	$f(x)=\left(x+\frac{1}{2}\right)^2-\frac{13}{4}$	$S\left(-\frac{1}{2} \mid -\frac{13}{4}\right)$	$P_y(0 \mid -3)$	$P_{x1}(-2{,}30 \mid 0)$	$P_{x2}(1{,}30 \mid 0)$	$P_{x1/2}\left(-\frac{1}{2}\pm\sqrt{\frac{13}{4}} \mid 0\right)$
003	$f(x)=x^2+x-5$	$f(x)=\left(x+\frac{1}{2}\right)^2-\frac{21}{4}$	$S\left(-\frac{1}{2} \mid -\frac{21}{4}\right)$	$P_y(0 \mid -5)$	$P_{x1}(-2{,}79 \mid 0)$	$P_{x1}(1{,}79 \mid 0)$	$P_{x1/2}\left(-\frac{1}{2}\pm\sqrt{\frac{21}{4}} \mid 0\right)$
004	$f(x)=x^2+2x+5$	$f(x)=(x+1)^2-4$	$S(-1 \mid -4)$	$P_y(0 \mid 5)$			keine Nullstellen
005	$f(x)=x^2+2x-1$	$f(x)=(x+1)^2-2$	$S(-1 \mid -2)$	$P_y(0 \mid -1)$	$P_{x1}(-2{,}41 \mid 0)$	$P_{x1}(0{,}41 \mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{2} \mid 0\right)$
006	$f(x)=x^2+4x+1$	$f(x)=(x+2)^2-3$	$S(-2 \mid -3)$	$P_y(0 \mid 1)$	$P_{x1}(-3{,}73 \mid 0)$	$P_{x1}(-0{,}27 \mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{3} \mid 0\right)$
007	$f(x)=x^2+4x+2$	$f(x)=(x+2)^2-2$	$S(-2 \mid -2)$	$P_y(0 \mid 2)$	$P_{x1}(-3{,}41 \mid 0)$	$P_{x1}(-0{,}59 \mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{2} \mid 0\right)$
008	$f(x)=x^2+4x-1$	$f(x)=(x+2)^2-5$	$S(-2 \mid -5)$	$P_y(0 \mid -1)$	$P_{x1}(-4{,}24 \mid 0)$	$P_{x1}(0{,}24 \mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{5} \mid 0\right)$
009	$f(x)=x^2+4x-5$	$f(x)=(x+2)^2-9$	$S(-2 \mid -9)$	$P_y(0 \mid -5)$	$P_{x1}(-5 \mid 0)$	$P_{x2}(1 \mid 0)$	
010	$f(x)=x^2+5x-2$	$f(x)=\left(x+\frac{5}{2}\right)^2-\frac{33}{4}$	$S\left(-\frac{5}{2} \mid -\frac{33}{4}\right)$	$P_y(0 \mid -2)$	$P_{x1}(-5{,}37 \mid 0)$	$P_{x1}(0{,}37 \mid 0)$	$P_{x1/2}\left(-\frac{5}{2}\pm\sqrt{\frac{33}{4}} \mid 0\right)$
011	$f(x)=x^2+5x-5$	$f(x)=\left(x+\frac{5}{2}\right)^2-\frac{45}{4}$	$S\left(-\frac{5}{2} \mid -\frac{45}{4}\right)$	$P_y(0 \mid -5)$	$P_{x1}(-5{,}85 \mid 0)$	$P_{x1}(0{,}85 \mid 0)$	$P_{x1/2}\left(-\frac{5}{2}\pm\sqrt{\frac{45}{4}} \mid 0\right)$
012	$f(x)=x^2+6x+4$	$f(x)=(x+3)^2-5$	$S(-3 \mid -5)$	$P_y(0 \mid 4)$	$P_{x1}(-5{,}24 \mid 0)$	$P_{x1}(-0{,}76 \mid 0)$	$P_{x1/2}\left(-3\pm\sqrt{5} \mid 0\right)$
013	$f(x)=x^2-3x+3{,}5$	$f(x)=\left(x-\frac{3}{2}\right)^2+\frac{5}{4}$	$S\left(\frac{3}{2} \mid \frac{5}{4}\right)$	$P_y(0 \mid 3{,}5)$			keine Nullstellen
014	$f(x)=x^2-4x+1$	$f(x)=(x-2)^2-3$	$S(2 \mid -3)$	$P_y(0 \mid 1)$	$P_{x1}(0{,}27 \mid 0)$	$P_{x1}(3{,}73 \mid 0)$	$P_{x1/2}\left(2\pm\sqrt{3} \mid 0\right)$
015	$f(x)=x^2-4x+2$	$f(x)=(x-2)^2-2$	$S(2 \mid -2)$	$P_y(0 \mid 2)$	$P_{x1}(0{,}59 \mid 0)$	$P_{x1}(3{,}41 \mid 0)$	$P_{x1/2}\left(2\pm\sqrt{2} \mid 0\right)$

016	$f(x)=x^2-4x+9$	$f(x)=(x-2)^2+5$	$S(2\mid 5)$	$P_y(0\mid 9)$			keine Nullstellen
017	$f(x)=x^2-6x+8$	$f(x)=(x-3)^2-1$	$S(3\mid -1)$	$P_y(0\mid 8)$	$P_{x1}(2\mid 0)$	$P_{x2}(4\mid 0)$	
018	$f(x)=-x^2+\frac{1}{2}x-2$	$f(x)=-\left(x-\frac{1}{4}\right)^2-\frac{31}{16}$	$S\left(\frac{1}{4}\mid -\frac{31}{16}\right)$	$P_y(0\mid -2)$			keine Nullstellen
019	$f(x)=-x^2+x+6$	$f(x)=-\left(x-\frac{1}{2}\right)^2+\frac{25}{4}$	$S\left(\frac{1}{2}\mid \frac{25}{4}\right)$	$P_y(0\mid 6)$	$P_{x1}(-2\mid 0)$	$P_{x2}(3\mid 0)$	
020	$f(x)=-x^2+2x+1$	$f(x)=-(x-1)^2+2$	$S(1\mid 2)$	$P_y(0\mid 1)$	$P_{x1}(-0{,}41\mid 0)$	$P_{x1}(2{,}41\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{2}\mid 0\right)$
021	$f(x)=-x^2+4x-9$	$f(x)=-(x-2)^2-5$	$S(2\mid -5)$	$P_y(0\mid -9)$			keine Nullstellen
022	$f(x)=-x^2+5x-5$	$f(x)=-\left(x-\frac{5}{2}\right)^2+\frac{5}{4}$	$S\left(\frac{5}{2}\mid \frac{5}{4}\right)$	$P_y(0\mid -5)$	$P_{x1}(1{,}38\mid 0)$	$P_{x1}(3{,}62\mid 0)$	$P_{x1/2}\left(\frac{5}{2}\pm\sqrt{\frac{5}{4}}\mid 0\right)$
023	$f(x)=-x^2+6x+4$	$f(x)=-(x-3)^2+13$	$S(3\mid 13)$	$P_y(0\mid 4)$	$P_{x1}(-0{,}61\mid 0)$	$P_{x1}(6{,}61\mid 0)$	$P_{x1/2}\left(3\pm\sqrt{13}\mid 0\right)$
024	$f(x)=-x^2+8x-9$	$f(x)=-(x-4)^2+7$	$S(4\mid 7)$	$P_y(0\mid -9)$	$P_{x1}(1{,}35\mid 0)$	$P_{x1}(6{,}25\mid 0)$	$P_{x1/2}\left(4\pm\sqrt{7}\mid 0\right)$
025	$f(x)=-x^2-x+2{,}5$	$f(x)=-\left(x+\frac{1}{2}\right)^2+\frac{11}{4}$	$S\left(-\frac{1}{2}\mid \frac{11}{4}\right)$	$P_y(0\mid 2{,}5)$	$P_{x1}(-1{,}16\mid 0)$	$P_{x1}(2{,}16\mid 0)$	$P_{x1/2}\left(\frac{1}{2}\pm\sqrt{\frac{11}{4}}\mid 0\right)$
026	$f(x)=-x^2-x+6$	$f(x)=-\left(x+\frac{1}{2}\right)^2+\frac{25}{4}$	$S\left(-\frac{1}{2}\mid \frac{25}{4}\right)$	$P_y(0\mid 6)$	$P_{x1}(-3\mid 0)$	$P_{x2}(2\mid 0)$	
027	$f(x)=-x^2-2x+1$	$f(x)=-(x+1)^2+2$	$S(-1\mid 2)$	$P_y(0\mid 1)$	$P_{x1}(-2{,}41\mid 0)$	$P_{x1}(0{,}41\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{2}\mid 0\right)$
028	$f(x)=-x^2-2x-1$	$f(x)=-(x+1)^2$	$S(-1\mid 0)$	$P_y(0\mid -1)$	$P_{x1}(-1\mid 0)$	$P_{x2}(-1\mid 0)$	doppelte Nullstelle
029	$f(x)=-x^2-3x+3{,}5$	$f(x)=-\left(x+\frac{3}{2}\right)^2+\frac{23}{4}$	$S\left(-\frac{3}{2}\mid \frac{23}{4}\right)$	$P_y(0\mid 3{,}5)$	$P_{x1}(-3{,}90\mid 0)$	$P_{x1}(0{,}90\mid 0)$	$P_{x1/2}\left(-\frac{3}{2}\pm\sqrt{\frac{23}{4}}\mid 0\right)$
030	$f(x)=-x^2-4x+1$	$f(x)=-(x+2)^2+5$	$S(-2\mid 5)$	$P_y(0\mid 1)$	$P_{x1}(-4{,}24\mid 0)$	$P_{x2}(0{,}24\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{5}\mid 0\right)$
031	$f(x)=-x^2-4x+2$	$f(x)=-(x+2)^2+6$	$S(-2\mid 6)$	$P_y(0\mid 2)$	$P_{x1}(-4{,}45\mid 0)$	$P_{x2}(0{,}45\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{6}\mid 0\right)$
032	$f(x)=-x^2-4x+3$	$f(x)=-(x+2)^2+7$	$S(-2\mid 7)$	$P_y(0\mid 3)$	$P_{x1}(-4{,}65\mid 0)$	$P_{x2}(0{,}65\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{7}\mid 0\right)$

033	$f(x)=-x^2-4x+9$	$f(x)=-(x+2)^2+13$	$S(-2\mid 13)$	$P_y(0\mid 9)$	$P_{x1}(-5{,}61\mid 0)$	$P_{x1}(1{,}61\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{13}\mid 0\right)$
034	$f(x)=-x^2-6x+8$	$f(x)=-(x+3)^2+17$	$S(-3\mid 17)$	$P_y(0\mid 8)$	$P_{x1}(-7{,}12\mid 0)$	$P_{x1}(1{,}12\mid 0)$	$P_{x1/2}\left(-3\pm\sqrt{17}\mid 0\right)$
035	$f(x)=x^2+9x$	$f(x)=\left(x+\frac{9}{2}\right)^2-\frac{81}{4}$	$S\left(-\frac{9}{2}\mid -\frac{81}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-9\mid 0)$	$P_{x2}(0\mid 0)$	
036	$f(x)=x^2+x$	$f(x)=\left(x+\frac{1}{2}\right)^2-\frac{1}{4}$	$S\left(-\frac{1}{2}\mid -\frac{1}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-1\mid 0)$	$P_{x2}(0\mid 0)$	
037	$f(x)=x^2+2x$	$f(x)=(x+1)^2-1$	$S(-1\mid -1)$	$P_y(0\mid 0)$	$P_{x1}(-2\mid 0)$	$P_{x2}(0\mid 0)$	
038	$f(x)=x^2+3x$	$f(x)=\left(x+\frac{3}{2}\right)^2-\frac{9}{4}$	$S\left(-\frac{3}{2}\mid -\frac{9}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-3\mid 0)$	$P_{x2}(0\mid 0)$	
039	$f(x)=x^2+4x$	$f(x)=(x+2)^2-4$	$S(-2\mid -4)$	$P_y(0\mid 0)$	$P_{x1}(-4\mid 0)$	$P_{x2}(0\mid 0)$	
040	$f(x)=x^2+3x$	$f(x)=\left(x+\frac{5}{2}\right)^2-\frac{25}{4}$	$S\left(-\frac{5}{2}\mid -\frac{25}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-5\mid 0)$	$P_{x2}(0\mid 0)$	
041	$f(x)=x^2+6x$	$f(x)=(x+3)^2-9$	$S(-3\mid -9)$	$P_y(0\mid 0)$	$P_{x1}(-6\mid 0)$	$P_{x2}(0\mid 0)$	
042	$f(x)=x^2-x$	$f(x)=\left(x-\frac{1}{2}\right)^2-\frac{1}{4}$	$S\left(\frac{1}{2}\mid -\frac{1}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(1\mid 0)$	
043	$f(x)=x^2-2x$	$f(x)=(x-1)^2-1$	$S(1\mid -1)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(2\mid 0)$	
044	$f(x)=x^2-3x$	$f(x)=\left(x-\frac{3}{2}\right)^2-\frac{9}{4}$	$S\left(\frac{3}{2}\mid -\frac{9}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(3\mid 0)$	
045	$f(x)=x^2-4x$	$f(x)=(x-2)^2-4$	$S(2\mid -4)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(4\mid 0)$	
046	$f(x)=-x^2+x$	$f(x)=-\left(x-\frac{1}{2}\right)^2-\frac{1}{4}$	$S\left(\frac{1}{2}\mid \frac{1}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(1\mid 0)$	
047	$f(x)=-x^2+2x$	$f(x)=-(x-1)^2+1$	$S(1\mid 1)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(2\mid 0)$	
048	$f(x)=-x^2+3x$	$f(x)=-\left(x-\frac{3}{2}\right)^2+\frac{9}{4}$	$S\left(\frac{3}{2}\mid \frac{9}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(3\mid 0)$	
049	$f(x)=-x^2+4x$	$f(x)=-(x-2)^2+4$	$S(2\mid 4)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(4\mid 0)$	

050	$f(x)=-x^2-x$	$f(x)=-\left(x+\frac{1}{2}\right)^2+\frac{1}{4}$	$S\left(-\frac{1}{2}\mid\frac{1}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-1\mid 0)$	$P_{x2}(0\mid 0)$	
051	$f(x)=-x^2-2x$	$f(x)=-(x+1)^2+1$	$S(-1\mid 1)$	$P_y(0\mid 0)$	$P_{x1}(-2\mid 0)$	$P_{x2}(0\mid 0)$	
052	$f(x)=-x^2-3x$	$f(x)=-\left(x+\frac{3}{2}\right)^2+\frac{9}{4}$	$S\left(-\frac{3}{2}\mid\frac{9}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(-3\mid 0)$	$P_{x2}(0\mid 0)$	
053	$f(x)=x^2-\frac{1}{9}$	$f(x)=x^2-\frac{1}{9}$	$S\left(0\mid-\frac{1}{9}\right)$	$P_y\left(0\mid-\frac{1}{9}\right)$	$P_{x1}\left(-\frac{1}{3}\mid 0\right)$	$P_{x2}\left(\frac{1}{3}\mid 0\right)$	
054	$f(x)=x^2-\frac{1}{4}$	$f(x)=x^2-\frac{1}{4}$	$S\left(0\mid-\frac{1}{4}\right)$	$P_y\left(0\mid-\frac{1}{4}\right)$	$P_{x1}\left(-\frac{1}{2}\mid 0\right)$	$P_{x2}\left(\frac{1}{2}\mid 0\right)$	
055	$f(x)=x^2-\frac{4}{9}$	$f(x)=x^2-\frac{4}{9}$	$S\left(0\mid-\frac{4}{9}\right)$	$P_y\left(0\mid-\frac{4}{9}\right)$	$P_{x1}\left(-\frac{2}{3}\mid 0\right)$	$P_{x2}\left(\frac{2}{3}\mid 0\right)$	
056	$f(x)=x^2-\frac{9}{4}$	$f(x)=x^2-\frac{9}{4}$	$S\left(0\mid-\frac{9}{4}\right)$	$P_y\left(0\mid-\frac{9}{4}\right)$	$P_{x1}\left(-\frac{3}{2}\mid 0\right)$	$P_{x2}\left(\frac{3}{2}\mid 0\right)$	
057	$f(x)=x^2-1$	$f(x)=x^2-1$	$S(0\mid-1)$	$P_y(0\mid-1)$	$P_{x1}(-1\mid 0)$	$P_{x2}(1\mid 0)$	
058	$f(x)=x^2-2$	$f(x)=x^2-2$	$S(0\mid-2)$	$P_y(0\mid-2)$	$P_{x1}(-1{,}41\mid 0)$	$P_{x1}(1{,}41\mid 0)$	$P_{x1/2}\left(\pm\sqrt{2}\mid 0\right)$
059	$f(x)=x^2-3$	$f(x)=x^2-3$	$S(0\mid-3)$	$P_y(0\mid-3)$	$P_{x1}(-1{,}73\mid 0)$	$P_{x1}(1{,}73\mid 0)$	$P_{x1/2}\left(\pm\sqrt{3}\mid 0\right)$
060	$f(x)=x^2-4$	$f(x)=x^2-4$	$S(0\mid-4)$	$P_y(0\mid-4)$	$P_{x1}(-2\mid 0)$	$P_{x2}(2\mid 0)$	
061	$f(x)=x^2-9$	$f(x)=x^2-9$	$S(0\mid-9)$	$P_y(0\mid-9)$	$P_{x1}(-3\mid 0)$	$P_{x2}(3\mid 0)$	
062	$f(x)=-x^2+1$	$f(x)=-x^2+1$	$S(0\mid 1)$	$P_y(0\mid 1)$	$P_{x1}(-1\mid 0)$	$P_{x2}(1\mid 0)$	
063	$f(x)=-x^2+2$	$f(x)=-x^2+2$	$S(0\mid 2)$	$P_y(0\mid 2)$	$P_{x1}(-1{,}41\mid 0)$	$P_{x1}(1{,}41\mid 0)$	$P_{x1/2}\left(\pm\sqrt{2}\mid 0\right)$
064	$f(x)=-x^2+\frac{9}{4}$	$f(x)=-x^2+\frac{9}{4}$	$S\left(0\mid\frac{9}{4}\right)$	$P_y\left(0\mid\frac{9}{4}\right)$	$P_{x1}\left(-\frac{3}{2}\mid 0\right)$	$P_{x2}\left(\frac{3}{2}\mid 0\right)$	
065	$f(x)=-x^2+3$	$f(x)=-x^2+3$	$S(0\mid 3)$	$P_y(0\mid 3)$	$P_{x1}(-1{,}73\mid 0)$	$P_{x1}(1{,}73\mid 0)$	$P_{x1/2}\left(\pm\sqrt{3}\mid 0\right)$
066	$f(x)=-x^2+4$	$f(x)=-x^2+4$	$S(0\mid 4)$	$P_y(0\mid 4)$	$P_{x1}(-2\mid 0)$	$P_{x2}(2\mid 0)$	
067	$f(x)=-x^2+9$	$f(x)=-x^2+9$	$S(0\mid 9)$	$P_y(0\mid 9)$	$P_{x1}(-3\mid 0)$	$P_{x2}(3\mid 0)$	
068	$f(x)=x^2+2x-2$	$f(x)=(x+1)^2-3$	$S(-1\mid-3)$	$P_y(0\mid-2)$	$P_{x1}(-2{,}73\mid 0)$	$P_{x1}(0{,}73\mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{3}\mid 0\right)$

069	$f(x)=x^2-2x$	$f(x)=(x-1)^2-1$	$S(1\mid -1)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(2\mid 0)$	
070	$f(x)=x^2-2x-1$	$f(x)=(x+1)^2-2$	$S(1\mid -2)$	$P_y(0\mid -1)$	$P_{x1}(-2{,}41\mid 0)$	$P_{x1}(0{,}41\mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{2}\mid 0\right)$
071	$f(x)=x^2-4x+3$	$f(x)=(x-2)^2-1$	$S(2\mid -1)$	$P_y(0\mid 3)$	$P_{x1}(1\mid 0)$	$P_{x2}(3\mid 0)$	
072	$f(x)=-x^2-2x-1$	$f(x)=-(x+1)^2$	$S(-1\mid 0)$	$P_y(0\mid -1)$	$P_{x1}(-1\mid 0)$	$P_{x2}(-1\mid 0)$	doppelte Nullstelle
073	$f(x)=-x^2-4x-4$	$f(x)=-(x+2)^2$	$S(-2\mid 0)$	$P_y(0\mid -4)$	$P_{x1}(-2\mid 0)$	$P_{x2}(-2\mid 0)$	doppelte Nullstelle
074	$f(x)=-x^2-2x-1$	$f(x)=-(x-1)^2$	$S(1\mid 0)$	$P_y(0\mid -1)$	$P_{x1}(1\mid 0)$	$P_{x2}(1\mid 0)$	doppelte Nullstelle
075	$f(x)=-x^2+2x-2$	$f(x)=-(x-1)^2-1$	$S(1\mid -1)$	$P_y(0\mid -2)$			keine Nullstelle
076	$f(x)=\frac{1}{2}x^2+2x+3$	$f(x)=\frac{1}{2}(x+2)^2+1$	$S(-2\mid 1)$	$P_y(0\mid 3)$			keine Nullstelle
077	$f(x)=\frac{1}{2}x^2-x-\frac{17}{2}$	$f(x)=\frac{1}{2}(x-1)^2-9$	$S(1\mid -9)$	$P_y\left(0\mid -\frac{17}{2}\right)$	$P_{x1}(-3{,}24\mid 0)$	$P_{x2}(5{,}24\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{18}\mid 0\right)$
078	$f(x)=\frac{1}{2}x^2-4x+5$	$f(x)=\frac{1}{2}(x-4)^2-3$	$S(4\mid -3)$	$P_y(0\mid 5)$	$P_{x1}(1{,}55\mid 0)$	$P_{x2}(6{,}45\mid 0)$	$P_{x1/2}\left(4\pm\sqrt{6}\mid 0\right)$
079	$f(x)=-\frac{1}{2}x^2-2x+6$	$f(x)=-\frac{1}{2}(x+2)^2+8$	$S(-2\mid 8)$	$P_y(0\mid 6)$	$P_{x1}(-6\mid 0)$	$P_{x2}(2\mid 0)$	
080	$f(x)=-\frac{1}{3}x^2+\frac{2}{3}x+\frac{5}{3}$	$f(x)=-\frac{1}{3}(x-1)^2+2$	$S(1\mid 2)$	$P_y\left(0\mid \frac{5}{3}\right)$	$P_{x1}(-1{,}45\mid 0)$	$P_{x2}(3{,}45\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{6}\mid 0\right)$
081	$f(x)=-\frac{1}{9}x^2+\frac{2}{9}x+\frac{8}{9}$	$f(x)=-\frac{1}{9}(x-1)^2+1$	$S(1\mid 1)$	$P_y\left(0\mid \frac{8}{9}\right)$	$P_{x1}(-2\mid 0)$	$P_{x2}(4\mid 0)$	
082	$f(x)=x^2-4x+5$	$f(x)=(x-2)^2+1$	$S(2\mid 1)$	$P_y(0\mid 5)$			keine Nullstelle
083	$f(x)=2x^2-4x+3$	$f(x)=2(x-1)^2+1$	$S(1\mid 1)$	$P_y(0\mid 3)$			keine Nullstelle
084	$f(x)=-x^2-4x-7$	$f(x)=-(x+2)^2-3$	$S(-2\mid -3)$	$P_y(0\mid -7)$			keine Nullstelle
085	$f(x)=-2x^2+8x-11$	$f(x)=-2(x-2)^2-3$	$S(2\mid -3)$	$P_y(0\mid -11)$			keine Nullstelle
086	$f(x)=-2x^2+10x-14$	$f(x)=-2\left(x-\frac{5}{2}\right)^2-\frac{3}{2}$	$S\left(\frac{5}{2}\mid -\frac{3}{2}\right)$	$P_y(0\mid -14)$			keine Nullstelle

087	$f(x)=-4x^2+16x-16$	$f(x)=-4(x-2)^2$	$S(2\mid 0)$	$P_y\left(0\mid\frac{8}{9}\right)$	$P_{x1}(2\mid 0)$	$P_{x2}(2\mid 0)$	doppelte Nullstelle
088	$f(x)=-4x^2-4x-\frac{1}{2}$	$f(x)=-4\left(x+\frac{1}{2}\right)^2+\frac{1}{2}$	$S\left(-\frac{1}{2}\mid\frac{1}{2}\right)$	$P_y\left(0\mid-\frac{1}{2}\right)$	$P_{x1}(-0{,}85\mid 0)$	$P_{x2}(-0{,}15\mid 0)$	$P_{x1/2}\left(-\frac{1}{2}\pm\sqrt{\frac{1}{8}}\mid 0\right)$
089	$f(x)=\frac{1}{2}x^2-6x$	$f(x)=\frac{1}{2}(x-6)^2-18$	$S(6\mid -18)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(12\mid 0)$	$f(x)=0{,}5x(x-12)$
090	$f(x)=\frac{1}{2}x^2+\frac{1}{2}x-6$	$f(x)=\frac{1}{2}\left(x+\frac{1}{2}\right)^2-\frac{49}{8}$	$S\left(-\frac{1}{2}\mid-\frac{49}{8}\right)$	$P_y(0\mid -6)$	$P_{x1}(-4\mid 0)$	$P_{x2}(3\mid 0)$	$f(x)=0{,}5(x-3)(x+4)$
091	$f(x)=\frac{1}{2}x^2-\frac{1}{2}x-3$	$f(x)=\frac{1}{2}\left(x-\frac{1}{2}\right)^2-\frac{25}{8}$	$S\left(\frac{1}{2}\mid-\frac{25}{8}\right)$	$P_y(0\mid -3)$	$P_{x1}(-2\mid 0)$	$P_{x2}(3\mid 0)$	$f(x)=0{,}5(x-3)(x+2)$
092	$f(x)=x^2-x-6$	$f(x)=\left(x-\frac{1}{2}\right)^2-\frac{25}{4}$	$S\left(\frac{1}{2}\mid-\frac{25}{4}\right)$	$P_y(0\mid -6)$	$P_{x1}(-2\mid 0)$	$P_{x2}(3\mid 0)$	$f(x)=(x-3)(x+2)$
093	$f(x)=x^2-3x+2$	$f(x)=\left(x-\frac{3}{2}\right)^2-\frac{1}{4}$	$S\left(\frac{3}{2}\mid-\frac{1}{4}\right)$	$P_y(0\mid 2)$	$P_{x1}(1\mid 0)$	$P_{x2}(2\mid 0)$	$f(x)=(x-1)(x-2)$
094	$f(x)=x^2-x-6$	$f(x)=\left(x-\frac{1}{2}\right)^2-\frac{25}{4}$	$S\left(\frac{1}{2}\mid-\frac{25}{4}\right)$	$P_y(0\mid -6)$	$P_{x1}(-2\mid 0)$	$P_{x2}(3\mid 0)$	$f(x)=(x-3)(x+2)$
095	$f(x)=3x^2-3x$	$f(x)=3\left(x-\frac{1}{2}\right)^2-\frac{3}{4}$	$S\left(\frac{1}{2}\mid-\frac{3}{4}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(1\mid 0)$	$f(x)=3x(x-1)$
096	$f(x)=-x^2+2x$	$f(x)=-(x-1)^2+1$	$S(1\mid 1)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(2\mid 0)$	$f(x)=-x(x-2)$
097	$f(x)=\frac{1}{2}x^2-\frac{5}{2}$	$f(x)=\frac{1}{2}x^2-\frac{5}{2}$	$S\left(0\mid-\frac{5}{2}\right)$	$P_y\left(0\mid-\frac{5}{2}\right)$	$P_{x1}(-2{,}24\mid 0)$	$P_{x2}(2{,}24\mid 0)$	$f(x)=0{,}5\left(x^2-5\right)$ $\pm\sqrt{5}$
098	$f(x)=\frac{1}{2}x^2-\frac{17}{2}x$	$f(x)=\frac{1}{2}\left(x-\frac{17}{2}\right)^2-\frac{289}{8}$	$S\left(\frac{17}{2}\mid-\frac{289}{8}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(17\mid 0)$	
099	$f(x)=\frac{1}{2}x^2+\frac{1}{4}x-2$	$f(x)=\frac{1}{2}\left(x+\frac{1}{4}\right)^2-\frac{65}{32}$	$S\left(-\frac{1}{4}\mid-\frac{65}{32}\right)$	$P_y(0\mid -2)$	$P_{x1}(-2{,}27\mid 0)$	$P_{x2}(1{,}77\mid 0)$	$P_{x1/2}\left(-\frac{1}{4}\pm\sqrt{\frac{65}{16}}\mid 0\right)$
100	$f(x)=\frac{1}{2}x^2+x+2$	$f(x)=\frac{1}{2}(x+1)^2+\frac{3}{2}$	$S\left(-1\mid\frac{3}{2}\right)$	$P_y(0\mid 2)$			keine Nullstellen

101	$f(x)=\frac{1}{2}x^2+2x-10$	$f(x)=\frac{1}{2}(x+2)^2-12$	$S(-2\mid -12)$	$P_y(0\mid -10)$	$P_{x1}(-6{,}90\mid 0)$	$P_{x2}(2{,}90\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{24}\mid 0\right)$
102	$f(x)=\frac{1}{2}x^2+\frac{5}{2}x-6$	$f(x)=\frac{1}{2}\left(x+\frac{5}{2}\right)^2-\frac{73}{8}$	$S\left(-\frac{5}{2}\mid -\frac{73}{8}\right)$	$P_y(0\mid -6)$	$P_{x1}(-6{,}77\mid 0)$	$P_{x2}(1{,}77\mid 0)$	$P_{x1/2}\left(-\frac{5}{2}\pm\sqrt{\frac{73}{4}}\mid 0\right)$
103	$f(x)=\frac{1}{2}x^2+\frac{5}{2}x-10$	$f(x)=\frac{1}{2}\left(x+\frac{5}{2}\right)^2-\frac{105}{8}$	$S\left(-\frac{5}{2}\mid -\frac{105}{8}\right)$	$P_y(0\mid -10)$	$P_{x1}(-7{,}62\mid 0)$	$P_{x2}(2{,}62\mid 0)$	$P_{x1/2}\left(-\frac{5}{2}\pm\sqrt{\frac{105}{4}}\mid 0\right)$
104	$f(x)=\frac{1}{2}x^2+6x-8$	$f(x)=\frac{1}{2}(x+6)^2-26$	$S(6\mid -26)$	$P_y(0\mid -8)$	$P_{x1}(-13{,}21\mid 0)$	$P_{x2}(1{,}21\mid 0)$	$P_{x1/2}\left(-6\pm\sqrt{52}\mid 0\right)$
105	$f(x)=\frac{1}{2}x^2-4x+5$	$f(x)=\frac{1}{2}(x-4)^2-3$	$S(4\mid -3)$	$P_y(0\mid 5)$	$P_{x1}(1{,}55\mid 0)$	$P_{x2}(6{,}45\mid 0)$	$P_{x1/2}\left(4\pm\sqrt{6}\mid 0\right)$
106	$f(x)=\frac{1}{2}x^2-x-\frac{15}{2}$	$f(x)=\frac{1}{2}(x-1)^2-8$	$S(1\mid -8)$	$P_y\left(0\mid -\frac{15}{2}\right)$	$P_{x1}(-3\mid 0)$	$P_{x2}(5\mid 0)$	
107	$f(x)=\frac{1}{2}x^2-4x+\frac{15}{2}$	$f(x)=\frac{1}{2}(x-4)^2-\frac{1}{2}$	$S\left(4\mid -\frac{1}{2}\right)$	$P_y\left(0\mid \frac{15}{2}\right)$	$P_{x1}(3\mid 0)$	$P_{x2}(5\mid 0)$	
108	$f(x)=-\frac{1}{2}x^2-x$	$f(x)=-\frac{1}{2}(x+1)^2+\frac{1}{2}$	$S\left(-1\mid \frac{1}{2}\right)$	$P_y(0\mid 0)$	$P_{x1}(-2\mid 0)$	$P_{x2}(0\mid 0)$	
109	$f(x)=-\frac{1}{2}x^2+2x-3$	$f(x)=-\frac{1}{2}(x-2)^2-1$	$S(2\mid -1)$	$P_y(0\mid -3)$			keine Nullstellen
110	$f(x)=-\frac{1}{2}x^2-2x+6$	$f(x)=-\frac{1}{2}(x+2)^2+8$	$S(-2\mid 8)$	$P_y(0\mid 6)$	$P_{x1}(-6\mid 0)$	$P_{x2}(2\mid 0)$	
111	$f(x)=-\frac{1}{2}x^2-4x+5$	$f(x)=-\frac{1}{2}(x+4)^2+13$	$S(-4\mid 13)$	$P_y(0\mid 5)$	$P_{x1}(-9{,}01\mid 0)$	$P_{x2}(1{,}01\mid 0)$	$P_{x1/2}\left(-4\pm\sqrt{26}\mid 0\right)$
112	$f(x)=\frac{1}{4}x^2+1$	$f(x)=\frac{1}{4}x^2+1$	$S(0\mid 1)$	$P_y(0\mid 1)$			keine Nullstellen
113	$f(x)=\frac{1}{4}x^2+x-1$	$f(x)=\frac{1}{4}(x+2)^2-2$	$S(-2\mid -2)$	$P_y(0\mid -1)$	$P_{x1}(-4{,}83\mid 0)$	$P_{x2}(0{,}83\mid 0)$	$P_{x1/2}\left(-2\pm\sqrt{8}\mid 0\right)$
114	$f(x)=\frac{1}{4}x^2+2x-1$	$f(x)=\frac{1}{4}(x+4)^2-5$	$S(-4\mid -5)$	$P_y(0\mid -1)$	$P_{x1}(-8{,}47\mid 0)$	$P_{x2}(0{,}47\mid 0)$	$P_{x1/2}\left(-4\pm\sqrt{20}\mid 0\right)$
115	$f(x)=\frac{1}{4}x^2+3x-5$	$f(x)=\frac{1}{4}(x+6)^2-14$	$S(-6\mid -14)$	$P_y(0\mid -5)$	$P_{x1}(-13{,}48\mid 0)$	$P_{x2}(1{,}48\mid 0)$	$P_{x1/2}\left(-6\pm\sqrt{56}\mid 0\right)$

116	$f(x)=\frac{1}{4}x^2+\frac{11}{2}x+10$	$f(x)=\frac{1}{4}(x+11)^2-\frac{81}{4}$	$S\left(-11\mid-\frac{81}{4}\right)$	$P_y(0\mid10)$	$P_{x1}(-20\mid0)$	$P_{x2}(-2\mid0)$	
117	$f(x)=\frac{1}{4}x^2-\frac{1}{2}x+1$	$f(x)=\frac{1}{4}(x-1)^2+\frac{3}{4}$	$S\left(1\mid\frac{3}{4}\right)$	$P_y(0\mid1)$			keine Nullstellen
118	$f(x)=\frac{1}{4}x^2-3x+8$	$f(x)=\frac{1}{4}(x-6)^2-1$	$S(6\mid-1)$	$P_y(0\mid8)$	$P_{x1}(4\mid0)$	$P_{x2}(8\mid0)$	
119	$f(x)=\frac{1}{4}x^2-3x+1$	$f(x)=\frac{1}{4}(x-6)^2-8$	$S(6\mid-8)$	$P_y(0\mid1)$	$P_{x1}(0{,}34\mid0)$	$P_{x2}(11{,}66\mid0)$	$P_{x1/2}\left(6\pm\sqrt{32}\mid0\right)$
120	$f(x)=\frac{3}{4}x^2+\frac{1}{4}x-7$	$f(x)=\frac{3}{4}\left(x+\frac{1}{6}\right)^2-\frac{337}{48}$	$S\left(-\frac{1}{6}\mid-\frac{337}{48}\right)$	$P_y(0\mid-7)$	$P_{x1}(-3{,}23\mid0)$	$P_{x2}(2{,}89\mid0)$	$P_{x1/2}\left(-\frac{1}{6}\pm\sqrt{\frac{337}{36}}\mid0\right)$
121	$f(x)=\frac{5}{4}x^2+\frac{9}{4}x-\frac{1}{2}$	$f(x)=\frac{5}{4}\left(x+\frac{9}{10}\right)^2-\frac{121}{80}$	$S\left(-\frac{9}{10}\mid-\frac{121}{80}\right)$	$P_y\left(0\mid-\frac{1}{2}\right)$	$P_{x1}(-2\mid0)$	$P_{x2}\left(\frac{1}{5}\mid0\right)$	
122	$f(x)=-\frac{1}{4}x^2+\frac{1}{4}x-1$	$f(x)=-\frac{1}{4}\left(x-\frac{1}{2}\right)^2-\frac{15}{16}$	$S\left(\frac{1}{2}\mid-\frac{15}{16}\right)$	$P_y(0\mid-1)$			keine Nullstellen
123	$f(x)=-\frac{1}{4}x^2-2x+3$	$f(x)=-\frac{1}{4}(x+4)^2+7$	$S(-4\mid7)$	$P_y(0\mid3)$	$P_{x1}(-9{,}29\mid0)$	$P_{x2}(1{,}29\mid0)$	$P_{x1/2}\left(-4\pm\sqrt{28}\mid0\right)$
124	$f(x)=-\frac{3}{4}x^2+\frac{2}{3}x-\frac{1}{6}$	$f(x)=-\frac{3}{4}\left(x-\frac{4}{9}\right)^2-\frac{1}{54}$	$S\left(\frac{4}{9}\mid-\frac{1}{54}\right)$	$P_y\left(0\mid-\frac{1}{6}\right)$			keine Nullstellen
125	$f(x)=-\frac{3}{4}x^2+2x+3$	$f(x)=-\frac{3}{4}\left(x-\frac{4}{3}\right)^2+\frac{13}{3}$	$S\left(\frac{4}{3}\mid\frac{13}{3}\right)$	$P_y(0\mid3)$	$P_{x1}(-1{,}07\mid0)$	$P_{x2}(3{,}74\mid0)$	$P_{x1/2}\left(\frac{4}{3}\pm\sqrt{\frac{52}{9}}\mid0\right)$
126	$f(x)=\frac{1}{3}x^2+\frac{2}{3}x-\sqrt{12}$	$f(x)=\frac{1}{3}(x+1)^2-\frac{1}{3}-\sqrt{12}$	$S\left(-1\mid-\frac{1}{3}-\sqrt{12}\right)$	$P_y\left(0\mid-\sqrt{12}\right)$	$P_{x1}(-4{,}38\mid0)$	$P_{x2}(2{,}38\mid0)$	$P_{x1/2}\left(-1\pm\sqrt{1+3\sqrt{12}}\mid0\right)$
127	$f(x)=\frac{1}{3}x^2-\frac{2}{3}x-2$	$f(x)=\frac{1}{3}(x-1)^2-\frac{7}{3}$	$S\left(1\mid-\frac{7}{3}\right)$	$P_y(0\mid-2)$	$P_{x1}(-1{,}65\mid0)$	$P_{x2}(3{,}65\mid0)$	$P_{x1/2}\left(1\pm\sqrt{7}\mid0\right)$
128	$f(x)=\frac{1}{3}x^2-2x+\frac{5}{3}$	$f(x)=\frac{1}{3}(x-3)^2-\frac{4}{3}$	$S\left(3\mid-\frac{4}{3}\right)$	$P_y\left(0\mid\frac{5}{3}\right)$	$P_{x1}(1\mid0)$	$P_{x2}(5\mid0)$	
129	$f(x)=\frac{1}{3}x^2-\frac{2}{3}x+\frac{5}{6}$	$f(x)=\frac{1}{3}(x-1)^2+\frac{4}{3}$	$S\left(1\mid\frac{4}{3}\right)$	$P_y\left(0\mid\frac{5}{3}\right)$			keine Nullstellen

130	$f(x)=-\frac{1}{3}x^2+\frac{2}{3}x+2$	$f(x)=-\frac{1}{3}(x-1)^2+\frac{7}{3}$	$S\left(1\mid\frac{7}{3}\right)$	$P_y(0\mid 2)$	$P_{x1}(-1{,}65\mid 0)$	$P_{x2}(3{,}65\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{7}\mid 0\right)$
131	$f(x)=-\frac{1}{3}x^2+2x+\frac{5}{3}$	$f(x)=-\frac{1}{3}(x-3)^2+\frac{14}{3}$	$S\left(3\mid\frac{14}{3}\right)$	$P_y\left(0\mid\frac{5}{3}\right)$	$P_{x1}(-0{,}74\mid 0)$	$P_{x2}(6{,}74\mid 0)$	$P_{x1/2}\left(3\pm\sqrt{14}\mid 0\right)$
132	$f(x)=\frac{2}{3}x^2+4x$	$f(x)=\frac{2}{3}(x+3)^2-6$	$S(-3\mid -6)$	$P_y(0\mid 0)$	$P_{x1}(-6\mid 0)$	$P_{x2}(0\mid 0)$	
133	$f(x)=\frac{2}{3}x^2-2x+\frac{5}{2}$	$f(x)=\frac{2}{3}\left(x-\frac{3}{2}\right)^2+\frac{1}{6}$	$S\left(\frac{3}{2}\mid\frac{1}{6}\right)$	$P_y\left(0\mid\frac{5}{3}\right)$			keine Nullstellen
134	$f(x)=\frac{4}{3}x^2-2x+\frac{5}{2}$	$f(x)=\frac{4}{3}\left(x-\frac{3}{4}\right)^2+\frac{11}{12}$	$S\left(\frac{3}{4}\mid\frac{11}{12}\right)$	$P_y\left(0\mid\frac{5}{3}\right)$			keine Nullstellen
135	$f(x)=-\frac{2}{3}x^2+\frac{3}{4}x+6$	$f(x)=-\frac{2}{3}\left(x-\frac{9}{16}\right)^2+\frac{795}{128}$	$S\left(\frac{9}{16}\mid\frac{795}{128}\right)$	$P_y(0\mid 6)$	$P_{x1}(-2{,}49\mid 0)$	$P_{x2}(3{,}62\mid 0)$	$P_{x1/2}\left(\frac{9}{16}\pm\sqrt{\frac{2385}{256}}\mid 0\right)$
136	$f(x)=\frac{1}{5}x^2+\frac{3}{5}x-\frac{7}{5}$	$f(x)=\frac{1}{5}\left(x+\frac{3}{2}\right)^2-\frac{37}{20}$	$S\left(-\frac{3}{2}\mid-\frac{37}{20}\right)$	$P_y\left(0\mid-\frac{7}{5}\right)$	$P_{x1}(-4{,}54\mid 0)$	$P_{x2}(1{,}54\mid 0)$	$P_{x1/2}\left(-\frac{3}{2}\pm\sqrt{\frac{37}{4}}\mid 0\right)$
137	$f(x)=\frac{2}{5}x^2-\frac{3}{5}x-\frac{4}{5}$	$f(x)=\frac{2}{5}\left(x-\frac{3}{4}\right)^2-\frac{41}{40}$	$S\left(\frac{3}{4}\mid-\frac{41}{40}\right)$	$P_y\left(0\mid-\frac{4}{5}\right)$	$P_{x1}(-0{,}85\mid 0)$	$P_{x2}(2{,}35\mid 0)$	$P_{x1/2}\left(\frac{3}{4}\pm\sqrt{\frac{41}{16}}\mid 0\right)$
138	$f(x)=\frac{4}{5}x^2+\frac{3}{4}x-\frac{7}{2}$	$f(x)=\frac{4}{5}\left(x+\frac{15}{32}\right)^2-\frac{941}{256}$	$S\left(-\frac{15}{32}\mid-\frac{941}{256}\right)$	$P_y\left(0\mid-\frac{7}{2}\right)$	$P_{x1}(-2{,}61\mid 0)$	$P_{x2}(1{,}67\mid 0)$	$P_{x1/2}\left(-\frac{15}{32}\pm\sqrt{\frac{4705}{1024}}\mid 0\right)$
139	$f(x)=-\frac{4}{5}x^2+\frac{3}{5}x+\frac{7}{5}$	$f(x)=-\frac{4}{5}\left(x-\frac{3}{8}\right)^2+\frac{121}{80}$	$S\left(\frac{3}{8}\mid\frac{121}{80}\right)$	$P_y\left(0\mid\frac{7}{5}\right)$	$P_{x1}(-1\mid 0)$	$P_{x2}\left(\frac{7}{4}\mid 0\right)$	
140	$f(x)=2x^2+4x$	$f(x)=2(x+1)^2-2$	$S(-1\mid -2)$	$P_y(0\mid 0)$	$P_{x1}(-2\mid 0)$	$P_{x2}(0\mid 0)$	
141	$f(x)=2x^2-x$	$f(x)=2\left(x-\frac{1}{4}\right)^2-\frac{1}{8}$	$S\left(\frac{1}{4}\mid-\frac{1}{8}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}\left(\frac{1}{2}\mid 0\right)$	
142	$f(x)=2x^2+3x-1$	$f(x)=2\left(x+\frac{3}{4}\right)^2-\frac{17}{8}$	$S\left(-\frac{3}{4}\mid-\frac{17}{8}\right)$	$P_y(0\mid -1)$	$P_{x1}(-1{,}78\mid 0)$	$P_{x2}(0{,}28\mid 0)$	$P_{x1/2}\left(-\frac{3}{4}\pm\sqrt{\frac{17}{16}}\mid 0\right)$
143	$f(x)=2x^2+4x-9$	$f(x)=2(x+1)^2-11$	$S(-1\mid -11)$	$P_y(0\mid -9)$	$P_{x1}(-3{,}35\mid 0)$	$P_{x2}(1{,}35\mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{\frac{11}{2}}\mid 0\right)$

144	$f(x)=2x^2-4x-1$	$f(x)=2(x-1)^2-3$	$S(1\mid -3)$	$P_y(0\mid -1)$	$P_{x1}(-0{,}23\mid 0)$	$P_{x2}(2{,}23\mid 0)$	$P_{x1/2}\left(1\pm\sqrt{\frac{3}{2}}\mid 0\right)$
145	$f(x)=3x^2-1$	$f(x)=3x^2-1$	$S(0\mid -1)$	$P_y(0\mid -1)$	$P_{x1}(-0{,}58\mid 0)$	$P_{x2}(0{,}58\mid 0)$	$P_{x1/2}\left(\pm\sqrt{\frac{1}{3}}\mid 0\right)$
146	$f(x)=3x^2-14x+7$	$f(x)=3\left(x-\frac{7}{3}\right)^2-\frac{28}{3}$	$S\left(\frac{7}{3}\mid -\frac{28}{3}\right)$	$P_y(0\mid 7)$	$P_{x1}(-0{,}57\mid 0)$	$P_{x2}(4{,}1\mid 0)$	$P_{x1/2}\left(\frac{7}{3}\pm\sqrt{\frac{28}{9}}\mid 0\right)$
147	$f(x)=3x^2-2x+1$	$f(x)=3\left(x-\frac{1}{3}\right)^2+\frac{2}{3}$	$S\left(\frac{1}{3}\mid \frac{2}{3}\right)$	$P_y(0\mid 1)$			keine Nullstelle
148	$f(x)=4x^2+x-5$	$f(x)=4\left(x+\frac{1}{8}\right)^2-\frac{81}{16}$	$S\left(-\frac{1}{8}\mid -\frac{81}{16}\right)$	$P_y(0\mid -5)$	$P_{x1}\left(-\frac{5}{4}\mid 0\right)$	$P_{x2}(1\mid 0)$	
149	$f(x)=5x^2+2x$	$f(x)=5\left(x+\frac{1}{5}\right)^2-\frac{1}{5}$	$S\left(-\frac{1}{5}\mid -\frac{1}{5}\right)$	$P_y(0\mid 0)$	$P_{x1}\left(-\frac{2}{5}\mid 0\right)$	$P_{x2}(0\mid 0)$	
150	$f(x)=-2x^2+4x$	$f(x)=-2(x-1)^2+2$	$S(1\mid 2)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}(2\mid 0)$	
151	$f(x)=-2x^2+x$	$f(x)=-2\left(x-\frac{1}{4}\right)^2+\frac{1}{8}$	$S\left(\frac{1}{4}\mid \frac{1}{8}\right)$	$P_y(0\mid 0)$	$P_{x1}(0\mid 0)$	$P_{x2}\left(\frac{1}{2}\mid 0\right)$	
152	$f(x)=-2x^2-3x+1$	$f(x)=-2\left(x+\frac{3}{4}\right)^2+\frac{17}{8}$	$S\left(-\frac{3}{4}\mid \frac{17}{8}\right)$	$P_y(0\mid 1)$	$P_{x1}(-1{,}79\mid 0)$	$P_{x2}(0{,}28\mid 0)$	$P_{x1/2}\left(-\frac{3}{4}\pm\sqrt{\frac{17}{16}}\mid 0\right)$
153	$f(x)=-2x^2-5x+2$	$f(x)=-2\left(x+\frac{5}{4}\right)^2+\frac{41}{8}$	$S\left(-\frac{5}{4}\mid \frac{41}{8}\right)$	$P_y(0\mid 2)$	$P_{x1}(-2{,}85\mid 0)$	$P_{x2}(0{,}35\mid 0)$	$P_{x1/2}\left(-\frac{5}{4}\pm\sqrt{\frac{41}{16}}\mid 0\right)$
154	$f(x)=-2x^2-4x+9$	$f(x)=-2(x+1)^2+11$	$S(-1\mid 11)$	$P_y(0\mid 9)$	$P_{x1}(-3{,}35\mid 0)$	$P_{x2}(1{,}35\mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{\frac{11}{2}}\mid 0\right)$
155	$f(x)=-2x^2-4x+1$	$f(x)=-2(x+1)^2+3$	$S(-1\mid 3)$	$P_y(0\mid 1)$	$P_{x1}(-2{,}23\mid 0)$	$P_{x2}(0{,}23\mid 0)$	$P_{x1/2}\left(-1\pm\sqrt{\frac{3}{2}}\mid 0\right)$
156	$f(x)=-3x^2+1$	$f(x)=-3x^2+1$	$S(0\mid 1)$	$P_y(0\mid 1)$	$P_{x1}(-0{,}58\mid 0)$	$P_{x2}(0{,}58\mid 0)$	$P_{x1/2}\left(\pm\sqrt{\frac{1}{3}}\mid 0\right)$

157	$f(x)=-3x^2+14x-7$	$f(x)=-3\left(x-\frac{7}{3}\right)^2+\frac{28}{3}$	$S\left(\frac{7}{3}\mid\frac{28}{3}\right)$	$P_y(0\mid-7)$	$P_{x1}(0{,}57\mid0)$	$P_{x2}(4{,}10\mid0)$	$P_{x1/2}\left(\frac{7}{3}\pm\sqrt{\frac{28}{9}}\mid0\right)$
158	$f(x)=-4x^2+9$	$f(x)=-4x^2+9$	$S(0\mid9)$	$P_y(0\mid9)$	$P_{x1}\left(-\frac{3}{2}\mid0\right)$	$P_{x2}\left(\frac{3}{2}\mid0\right)$	
159	$f(x)=-4x^2-x+5$	$f(x)=-4\left(x+\frac{1}{8}\right)^2+\frac{81}{16}$	$S\left(-\frac{1}{8}\mid\frac{81}{16}\right)$	$P_y(0\mid5)$	$P_{x1}\left(-\frac{5}{4}\mid0\right)$	$P_{x2}(1\mid0)$	
160	$f(x)=-4x^2+x+3$	$f(x)=-4\left(x-\frac{1}{8}\right)^2+\frac{49}{16}$	$S\left(\frac{1}{8}\mid\frac{49}{16}\right)$	$P_y(0\mid3)$	$P_{x1}\left(-\frac{3}{4}\mid0\right)$	$P_{x2}(1\mid0)$	