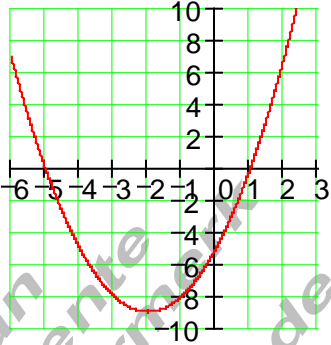
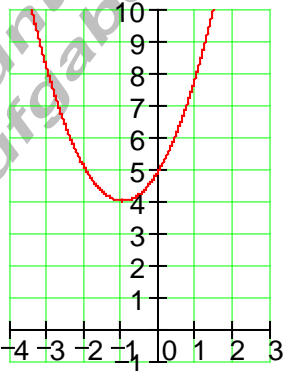
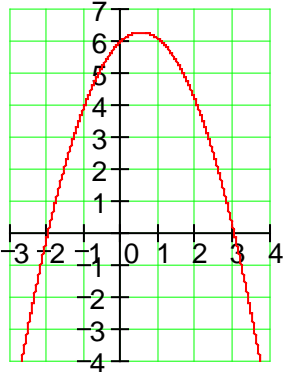


## Lösungen Training quadratische Funktionen I

### Ergebnisse:

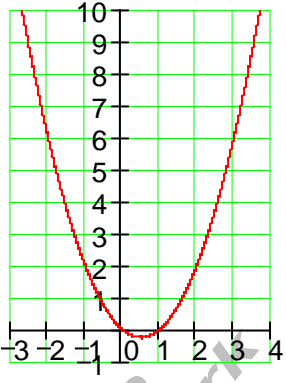
E1	<p>Ergebnis</p> <p>Funktionsgleichung:</p> $f(x) = x^2 + 4x - 5$ <p>Wertetabelle:</p> <table border="1" data-bbox="264 533 660 719"> <tbody> <tr> <td>x</td> <td>-6</td> <td>-5</td> <td>-4</td> <td>-3</td> <td>-2</td> </tr> <tr> <td>f(x)</td> <td>7</td> <td>0</td> <td>-5</td> <td>-8</td> <td>-9</td> </tr> <tr> <td>x</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>f(x)</td> <td>-8</td> <td>-5</td> <td>0</td> <td>7</td> <td>16</td> </tr> </tbody> </table>	x	-6	-5	-4	-3	-2	f(x)	7	0	-5	-8	-9	x	-1	0	1	2	3	f(x)	-8	-5	0	7	16	
x	-6	-5	-4	-3	-2																					
f(x)	7	0	-5	-8	-9																					
x	-1	0	1	2	3																					
f(x)	-8	-5	0	7	16																					
E2	<p>Ergebnis</p> <p>Funktionsgleichung:</p> $f(x) = x^2 + 2x + 5$ <p>Wertetabelle:</p> <table border="1" data-bbox="264 1081 603 1267"> <tbody> <tr> <td>x</td> <td>-4</td> <td>-3</td> <td>-2</td> <td>-1</td> </tr> <tr> <td>f(x)</td> <td>13</td> <td>8</td> <td>5</td> <td>4</td> </tr> <tr> <td>x</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>f(x)</td> <td>5</td> <td>8</td> <td>13</td> <td>20</td> </tr> </tbody> </table>	x	-4	-3	-2	-1	f(x)	13	8	5	4	x	0	1	2	3	f(x)	5	8	13	20					
x	-4	-3	-2	-1																						
f(x)	13	8	5	4																						
x	0	1	2	3																						
f(x)	5	8	13	20																						
E3	<p>Ergebnis</p> <p>Funktionsgleichung:</p> $f(x) = -x^2 + x + 6$ <p>Wertetabelle:</p> <table border="1" data-bbox="264 1664 603 1850"> <tbody> <tr> <td>x</td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> </tr> <tr> <td>f(x)</td> <td>-6</td> <td>0</td> <td>4</td> <td>6</td> </tr> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>f(x)</td> <td>6</td> <td>4</td> <td>0</td> <td>-6</td> </tr> </tbody> </table>	x	-3	-2	-1	0	f(x)	-6	0	4	6	x	1	2	3	4	f(x)	6	4	0	-6					
x	-3	-2	-1	0																						
f(x)	-6	0	4	6																						
x	1	2	3	4																						
f(x)	6	4	0	-6																						

**E4 Ergebnis**

Funktionsgleichung:  
 $f(x) = x^2 - x$

Wertetabelle:

x	-3	-2	-1	0
f(x)	12	6	2	0
x	1	2	3	4
f(x)	0	2	6	12

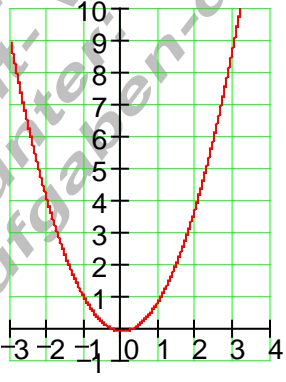


**E5 Ergebnis**

Funktionsgleichung:  
 $f(x) = x^2 - \frac{1}{9}$

Wertetabelle:

x	-3	-2	-1	0
f(x)	8,9	3,9	0,9	-0,1
x	1	2	3	4
f(x)	0,9	3,9	8,9	15,9

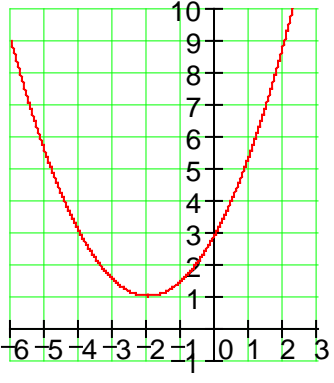


**E6 Ergebnis**

Funktionsgleichung:  
 $f(x) = \frac{1}{2}x^2 + 2x + 3$

Wertetabelle:

x	-6	-5	-4	-3	-2
f(x)	9	5,5	3	1,5	1
x	-1	0	1	2	3
f(x)	1,5	3	5,5	9	13,5



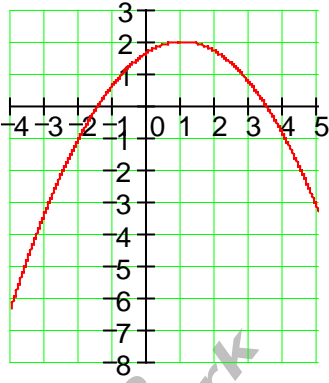
**E7 Ergebnis**

Funktionsgleichung:

$$f(x) = -\frac{1}{3}x^2 + \frac{2}{3}x + \frac{5}{3}$$

Wertetabelle:

x	-4	-3	-2	-1	0
f(x)	-6,3	-3,3	-1	0,7	1,7
x	1	2	3	4	5
f(x)	2	1,7	0,7	-1	-3,3



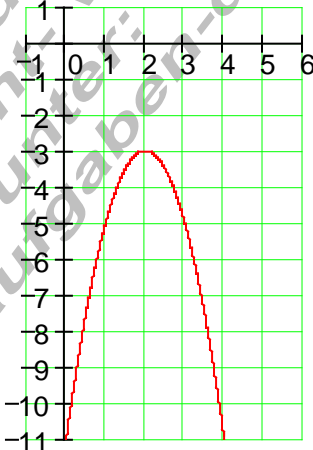
**E8 Ergebnis**

Funktionsgleichung:

$$f(x) = -2x^2 + 8x - 11$$

Wertetabelle:

x	-1	0	1	2
f(x)	-21	-11	-5	-3
x	3	4	5	6
f(x)	-5	-11	-21	-35



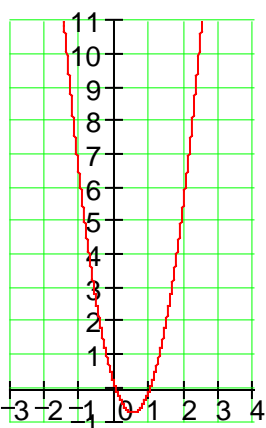
**E9 Ergebnis**

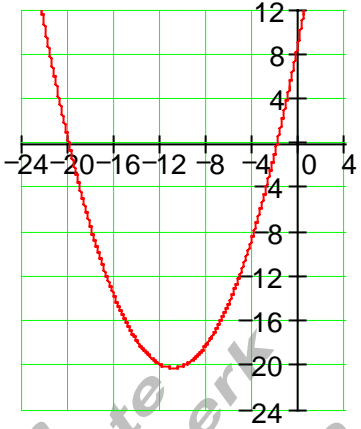
Funktionsgleichung:

$$f(x) = 3x^2 - 3x$$

Wertetabelle:

x	-3	-2	-1	0
f(x)	36	18	6	0
x	1	2	3	4
f(x)	0	6	18	36



E10 Ergebnis																					
<p>Funktionsgleichung:</p> $f(x) = \frac{1}{4}x^2 + \frac{11}{2}x + 10$ <p>Wertetabelle:</p> <table border="1"><tbody><tr><td>x</td><td>-24</td><td>-20</td><td>-16</td><td>-12</td></tr><tr><td>f(x)</td><td>22</td><td>0</td><td>-14</td><td>-20</td></tr><tr><td>x</td><td>-8</td><td>-4</td><td>0</td><td>4</td></tr><tr><td>f(x)</td><td>-18</td><td>-8</td><td>10</td><td>36</td></tr></tbody></table>	x	-24	-20	-16	-12	f(x)	22	0	-14	-20	x	-8	-4	0	4	f(x)	-18	-8	10	36	
x	-24	-20	-16	-12																	
f(x)	22	0	-14	-20																	
x	-8	-4	0	4																	
f(x)	-18	-8	10	36																	

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