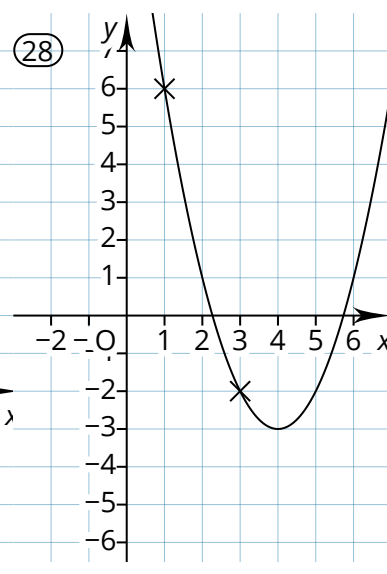
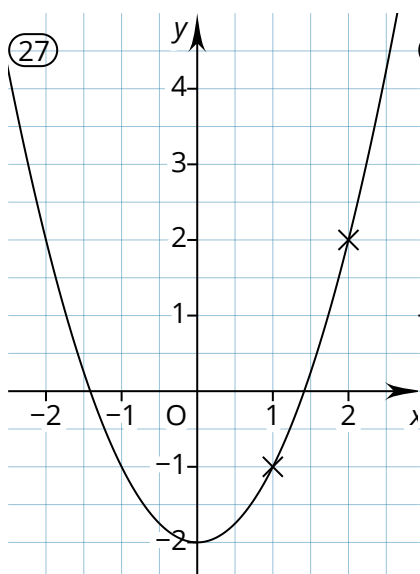
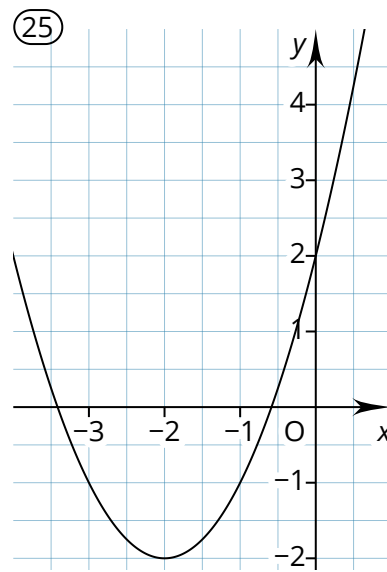
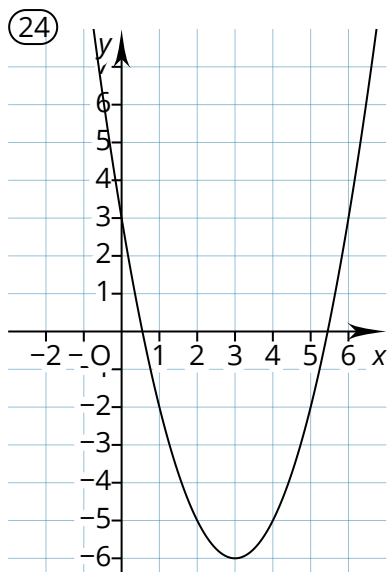


# Lösungen

| Gleichung | Wertetabelle | Graph     |
|-----------|--------------|-----------|
| 23        | <b>33</b>    | 15        |
| 24        | 34           | 16        |
| 25        | 31           | 17        |
| 26        | 32           | 18        |
| 27        | <b>29</b>    | 20        |
| 28        | 30           | 19        |
| <b>21</b> | 36           | 21        |
| 22        | 35           | 22        |
| <b>19</b> | 39           | 23        |
| 20        | 40           | <b>24</b> |
| 17        | 37           | <b>25</b> |
| 18        | 38           | 26        |
| <b>15</b> | 41           | <b>27</b> |
| <b>16</b> | 42           | <b>28</b> |



[19]  $f(x) = x^2 + 6x + 9$   
 $= x^2 + 2 \cdot 3 \cdot x + (3)^2$   
 $= (x + 3)^2$

[21]  $f(x) = (x + 1)^2 + \frac{3}{2}$

[15]  $f(x) = x^2 - 2$

[16]  $f(x) = (x - 4)^2 - 3$

[29] z.B.

| $x$        | $-\frac{1}{2}$ | 0              | $\frac{1}{2}$ | 1             | $\frac{3}{2}$ | 2             |
|------------|----------------|----------------|---------------|---------------|---------------|---------------|
| $y = f(x)$ | 5              | $\frac{13}{4}$ | 2             | $\frac{5}{4}$ | 1             | $\frac{5}{4}$ |

[33]

| $x$        | -1   | 0   | 1   | 2   | 3   |
|------------|------|-----|-----|-----|-----|
| $y = f(x)$ | 10,5 | 5,5 | 2,5 | 1,5 | 2,5 |

1 **Überprüft** eure Quartetts.

2 **Ordnet** den Normalparabeln (Graphen) die Eigenschaften zu oder formuliert selbst passende Eigenschaften.