



## QT Factorise Quadratics

1. Factorise  $x^2 + 15x + 36$

$$\begin{array}{c} 36 \\ / \quad \backslash \\ +12 \quad +3 \end{array} \quad (x+12)(x+3)$$

2. Factorise  $x^2 + 11x + 10$

$$\begin{array}{c} +10 \\ / \quad \backslash \\ +10 \quad +1 \end{array} \quad (x+10)(x+1)$$

3. Factorise  $x^2 + 7x + 6$

$$\begin{array}{c} 6 \\ / \quad \backslash \\ +6 \quad +1 \end{array} \quad (x+6)(x+1)$$

4. Factorise  $x^2 - 13x + 36$

$$\begin{array}{c} +36 \\ / \quad \backslash \\ -9 \quad -4 \end{array} \quad (x-9)(x-4)$$

5. Factorise  $x^2 + 6x - 7$

$$\begin{array}{c} -7 \\ / \quad \backslash \\ +7 \quad -1 \end{array} \quad (x+7)(x-1)$$



6. Factorise  $x^2 - 3x - 40$

$$\begin{array}{c} -40 \\ / \quad \backslash \\ +5 \quad -8 \end{array} \quad (x+5)(x-8)$$

7. Factorise  $x^2 + 3x - 28$

$$\begin{array}{c} -28 \\ / \quad \backslash \\ +7 \quad -4 \end{array} \quad (x+7)(x-4)$$

8. Factorise  $x^2 - 2x - 15$

$$\begin{array}{c} -15 \\ / \quad \backslash \\ -5 \quad +3 \end{array} \quad (x-5)(x+3)$$

9. Factorise  $x^2 - 9$

$$\begin{array}{c} -9 \\ / \quad \backslash \\ +3 \quad -3 \end{array} \quad (x+3)(x-3)$$

10. Factorise  $x^2 - 144$

$$\begin{array}{c} -144 \\ / \quad \backslash \\ +12 \quad -12 \end{array} \quad (x+12)(x-12)$$