

Expand and factorise quadratics (A)

Expand

$$\begin{aligned}(x+2)(x+11) \\ x^2 + 11x + 2x + 22 \\ = x^2 + 13x + 22\end{aligned}$$

$$\begin{aligned}(x-10)(x-9) \\ x^2 - 9x - 10x + 90 \\ = x^2 - 19x + 90\end{aligned}$$

$$\begin{aligned}(x+5)(x+6) \\ x^2 + 6x + 5x + 30 \\ = x^2 + 11x + 30\end{aligned}$$

$$\begin{aligned}(x+1)(x-4) \\ x^2 - 4x + x - 4 \\ = x^2 - 3x - 4\end{aligned}$$

$$\begin{aligned}(x-3)(x+8) \\ x^2 + 8x - 3x - 24 \\ = x^2 + 5x - 24\end{aligned}$$

$$\begin{aligned}(x-7)(x-9) \\ x^2 - 9x - 7x + 63 \\ = x^2 - 16x + 63\end{aligned}$$

Factorise

$$\begin{aligned}x^2 + 5x + 6 \\ (x+2)(x+3)\end{aligned}$$

$$\begin{aligned}x^2 - 3x - 10 \\ (x-5)(x+2)\end{aligned}$$

$$\begin{aligned}x^2 + 7x + 10 \\ (x+5)(x+2)\end{aligned}$$

$$\begin{aligned}x^2 - 9x + 18 \\ (x-6)(x-3)\end{aligned}$$

$$\begin{aligned}x^2 + 4x + 3 \\ (x+1)(x+3)\end{aligned}$$

$$\begin{aligned}x^2 - 5x + 6 \\ (x-2)(x-3)\end{aligned}$$