

Examples:

$$\begin{aligned}(y - 8)(y - 2) \\ y^2 - 2y - 8y + 16 \\ y^2 - 10y + 16\end{aligned}$$

$$\begin{aligned}(3x + 4)(2x - 5) \\ 6x^2 - 15x + 8x - 20 \\ 6x^2 - 7x - 20\end{aligned}$$

$$\begin{aligned}(2x - 3y)(5x + 2y) \\ 10x^2 + 4xy - 15xy - 6y^2 \\ 10x^2 - 11xy - 6y^2\end{aligned}$$

$$\begin{aligned}(10a^2 + 7)(4 + 2a^2) \\ 40a^2 + 20a^4 + 28 + 14a^2 \\ 20a^4 + 34a^2 + 28\end{aligned}$$

Remember: The FOIL acronym can help you make sure you don't miss any terms! Take extra care with the negatives.

Expand the the following:

Q1) $(x + 5)(x + 3)$

Q2) $(a - 7)(a + 10)$

Q3) $(b - 11)(b - 5)$

Q4) $(2d + 5)(d + 8)$

Q5) $(5g - 3)(2g + 6)$

Q6) $(2x - 3)(3 + 5x)$

Q7) $(2c^2 - 1)(3c^2 - 4)$

Q8) $(a + 2b)(3a - 2b)$

Q9) $(5x + 12)(2x + 7)$

Q10) $(5ab + a)(2a - b)$