

F-word: FACTORING!

$$\textcircled{1} \quad x^2 + 8x + 16 \\ (x+4)(x+4)$$

$$a \cdot c = 1 \cdot 16 = 16$$

$$\begin{array}{r} \textcircled{4 \cdot 4} \\ 16 \cdot 1 \\ 8 \cdot 2 \end{array}$$

$$\textcircled{2} \quad x^2 + 7x + 10 \\ (x+2)(x+5)$$

$$a \cdot c = \underline{10} \\ \textcircled{2 \cdot 5}$$

$$\textcircled{3} \quad x^2 + 9x + 20 \\ (x+4)(x+5)$$

$$\textcircled{4} \quad x^2 - 3x - 18 \\ (x-6)(x+3)$$

$$a \cdot c = \underline{-18} \\ \begin{array}{r} 1 \cdot -18 \\ -1 \cdot 18 \\ \textcircled{-6 \cdot 3} \end{array}$$

$$\textcircled{5} \quad x^2 + x - 6 \\ (x-2)(x+3)$$

$$a \cdot c = \underline{-6} \\ \begin{array}{r} \cancel{-1 \cdot 6} \\ -2 \cdot 3 \end{array}$$

$$\textcircled{6} \quad x^2 - 11x + 28 \\ (x-7)(x-4)$$

$$a \cdot c = \underline{28} \\ \begin{array}{r} -1 \cdot -28 \\ -2 \cdot -14 \\ \textcircled{-7 \cdot -4} \end{array}$$

$$\textcircled{7} \quad x^2 + 16x - 17 \\ (x-1)(x+17)$$

$$a \cdot c = \underline{-17} \\ \begin{array}{r} 1 \cdot -17 \\ -1 \cdot 17 \end{array}$$