

Factoring (ax^2+bx+c)

$$\begin{aligned}\textcircled{1} \quad 5x^2+11x+2 &= (5x+\square)(x+\square) \\ &= (5x+2)(x+1) \text{ or } \boxed{(5x+1)(x+2)}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad 3x^2+4x-15 &= (3x+\square)(x-\square) \text{ or } (3x-\square)(x+\square) \\ &\quad \downarrow \\ &\quad \boxed{(3x-5)(x+3)}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad 18x^2-33x+12 &= 3(6x^2-11x+4) \\ &= 3(6x-\square)(x-\square) \text{ or } 3(3x-\square)(2x-\square) \\ &\quad \downarrow \\ &\quad \boxed{3(3x-4)(2x-1)}\end{aligned}$$