

Factoring (x^2+bx+c)

$$\textcircled{1} \quad x^2+11x+28 = (x+\square)(x+\square) \\ = \boxed{(x+4)(x+7)}$$

Factors of 28	Sum
1, 28	29 x
2, 14	16 x
4, 7	11 ✓

$$\textcircled{2} \quad x^2-10x+24 = (x-\square)(x-\square) \\ = \boxed{(x-4)(x-6)}$$

Factors of 24	Sum
1, 24	25 x
2, 12	14 x
3, 8	11 x
4, 6	10 ✓

$$\textcircled{3} \quad x^2+2x-15 = (x+\square)(x-\square) \\ = \boxed{(x+5)(x-3)}$$

Factors of -15	Sum
1, -15	-14
-1, 15	14
3, -5	-2
-3, 5	2

$$x^2-2x-15 = (x+\square)(x-\square) \\ = \boxed{(x+3)(x-5)}$$