



$$(2x+1)(x+1) + (2x-1)(x+3) + (2x+1) \cdot x$$

$$\cancel{2x^2} + \cancel{2x} + \cancel{x} + 1 + \cancel{2x^2} + \cancel{6x} - \cancel{3} + \cancel{2x^2} + \cancel{x}$$

$$\underline{\underline{6x^2 + 9x - 2}}$$

19. $(3x+6)(3x+6)$ 20. $(-6-8x)^2$

$$9x^2 + 18x + 18x + 36$$

$$\underline{\underline{9x^2 + 36x + 36}}$$

11. $-x^2(12x^3 - 11x^2 + 3)$

$-12x^5 + 11x^4 - 3x^2$

12. $(3x - y)(2x + 5y)$

$$6x^2 + \underline{15xy} - \underline{2xy} - 5y^2$$

$$\underline{6x^2 + 13xy - 5y^2}$$

$$1. (x+5)(2x+10)=0$$

$$2. (2x$$

$$x+5=0 \quad \text{or} \quad 2x+10=0$$
$$\frac{-5 \quad -5}{x=-5} \quad \text{or} \quad \frac{-10 \quad -10}{2x=-10}$$
$$\frac{-10}{2} = \frac{-10}{2}$$
$$x=-5$$

$$3. (2x+7)(3x-12)=0 \quad \dots \quad x(4$$

10. $x^2 + 7x + 24$

~~1·24
2·12
3·8
4·6~~

11. b^2

~~$(x + \quad)(x + \quad)$~~

Not Factorable

5.5

17. $n^2 + 26n + 25 = 0$

$$(n+1)(n+25) = 0$$

$$n+1=0 \quad \text{or} \quad n+25=0$$

$$\begin{array}{r} -1-1 \\ \hline \end{array} \quad \downarrow \quad \begin{array}{r} -25-25 \\ \hline \end{array}$$

$$\underline{\underline{n = -1 \quad \text{or} \quad n = -25}}$$

2

1.2

$$2x^3 - 8x^2 + 3x - 12$$

1.12
2.6

3.4

$$(2x^2 + 3)(x - 4)$$