

$$20x^2 - 15x = 0$$

$$20x^2 = 5 \cdot 2 \cdot 2 \cdot x \cdot x$$
$$-15x = -1 \cdot 5 \cdot 3 \cdot x$$

$$5x(4x-3)$$

$$\frac{5x}{5} = \frac{0}{5}$$

$$x = 0$$

$$4x - 3 = 0$$
$$+3 +3$$

$$\frac{4x}{4} = \frac{3}{4}$$

$$x = \frac{3}{4}$$

$$x^2 - 9 = 0$$

$$x^2 - 3x + 3x - 9$$

$$x(x-3) + 3(x-3)$$

$$(x-3)(x+3)$$

$$x-3=0$$
$$+3 +3$$
$$x=3$$

$$x+3=0$$
$$-3 -3$$
$$x=-3$$

$$(1)(-9) = -9$$

$$-9 = -3 + 3 = 0$$

$$x^2 + 4x - 21 = 0$$

$$x^2 + 7x - 3x - 21$$

$$x(x+7) - 3(x+7)$$

$$(x-3)(x+7)$$

$$x-3=0$$
$$+3 +3$$
$$x=3$$

$$x+7=0$$
$$-7 -7$$
$$x=-7$$

$$(1)(-21) = -21$$

$$-21 = 21 - 1 - 20$$
$$7 - 3 = 4$$

$$2x^2 + 7x - 4 = 0 \quad 2(-4) = -8$$

$$2x^2 + 8x - 1x - 4 = 0 \quad -8 = 8 - 1 = 7$$

$$2x(x+4) - 1(x+4)$$

$$(x+4)(2x-1) = 0$$

$$\begin{array}{r} x+4=0 \\ -4 \quad -4 \\ \hline x = -4 \end{array}$$

$$\begin{array}{r} 2x-1=0 \\ +1 \quad +1 \\ \hline 2x = 1 \\ \frac{2x}{2} = \frac{1}{2} \\ x = \frac{1}{2} \end{array}$$
