

Travail Supplémentaire - CORRIGÉ

→ Isoler l'inconnue et trouver sa valeur.

1. $16x - 2 = 3(2x - 4)$

$$16x - 2 = 6x - 4 + 2$$

$$16x - 6x = -4 + 2$$

$$10x = -2$$

$$x = \frac{-2}{10}$$

$$x = -0,2$$

2. $-4(-3x - 1) = -1(x - 2)$

$$12x + 4 = -x - 2 - 4$$

$$12x = -x - 6$$

$$13x = -6$$

$$x = \frac{-6}{13}$$

$$x = -0,46$$

3. $3x - 4 \rightarrow -8x + 4$

$$3(3x - 4) = 6(-8x + 4)$$

$$9x - 12 = -48x + 24 + 12$$

$$9x = -48x + 36$$

$$57x = 36$$

$$x = \frac{36}{57}$$

$$x = 0,63$$

5. $2x + 3 \rightarrow 8(2x + 3)$

$$2(2x + 3) = 32(2x + 3)$$

$$4x + 6 = 64x + 96 - 6$$

$$4x = 64x + 90$$

$$-60x = 90$$

$$x = \frac{90}{-60}$$

$$x = -1,5$$

4. $\frac{-x + 18}{-3} \rightarrow 4(2x + 4)$

$$-x + 18 = -12(2x + 4)$$

$$-x + 18 = -24x - 48$$

$$23x + 18 = -48 - 18$$

$$23x = -66$$

$$x = \frac{-66}{23}$$

$$x = -2,87$$

6. $3(10x - 4) \rightarrow 4(2x + 4)$

$$30(10x - 4) = 36(2x + 4)$$

$$300x - 120 = 72x + 144 + 120$$

$$300x = 72x + 264$$

$$228x = 264$$

$$x = \frac{264}{228}$$

$$x = 1,16$$