

Correction : équations du 1er degré

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1) $x - 4 = 1$

$$\Leftrightarrow x = 1 + 4$$

$$\Leftrightarrow \boxed{x = 5}.$$

5) $-5x = 10$

$$\Leftrightarrow x = \frac{10}{-5}$$

$$\Leftrightarrow \boxed{x = -2}.$$

9) $5x - 1 = 3x + 2$

$$\Leftrightarrow 5x - 3x = 2 + 1$$

$$\Leftrightarrow 2x = 3$$

$$\Leftrightarrow \boxed{x = \frac{3}{2}}.$$

2) $3x = -9$

$$\Leftrightarrow x = \frac{-9}{3}$$

$$\Leftrightarrow \boxed{x = -3}.$$

6) $3x - 2 = 0$

$$\Leftrightarrow 3x = 2$$

$$\Leftrightarrow \boxed{x = \frac{2}{3}}.$$

10) $3(x - 2) = 5x$

$$\Leftrightarrow 3x - 6 = 5x$$

$$\Leftrightarrow 3x - 5x = 6$$

$$\Leftrightarrow -2x = 6$$

$$\Leftrightarrow x = \frac{6}{-2}$$

$$\Leftrightarrow \boxed{x = -3}.$$

3) $x + 10 = 15$

$$\Leftrightarrow x = 15 - 10$$

$$\Leftrightarrow \boxed{x = 5}.$$

7) $6 - x = 9$

$$\Leftrightarrow 6 - 9 = x$$

$$\Leftrightarrow \boxed{-3 = x}.$$

11) $-2x + 4 = 5(3 - x)$

$$\Leftrightarrow -2x + 4 = 15 - 3x$$

$$\Leftrightarrow -2x + 3x = 15 - 4$$

$$\Leftrightarrow \boxed{x = 11}.$$

4) $-2x = 0$

$$\Leftrightarrow x = \frac{0}{-2}$$

$$\Leftrightarrow \boxed{x = 0}.$$

8) $3 - 2x = 7x$

$$\Leftrightarrow 3 = 7x + 2x$$

$$\Leftrightarrow 3 = 9x$$

$$\Leftrightarrow \frac{3}{9} = x$$

$$\Leftrightarrow \boxed{\frac{1}{3} = x}$$

12) $3(4 - 2x) = x - 2(x + 1)$

$$\Leftrightarrow 12 - 6x = x - 2x - 2$$

$$\Leftrightarrow 12 - 6x = -x - 2$$

$$\Leftrightarrow -6x + x = -2 - 12$$

$$\Leftrightarrow -5x = -14$$

$$\Leftrightarrow x = \frac{-14}{-5}$$

$$\Leftrightarrow \boxed{x = \frac{14}{5}}.$$