

Revision Worksheet

Solve

$$1. \ 4x = 12$$

$x = 3$

$$2. \ 4x - 2 = 10$$

$x = 3$

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

$x = 3$

$$4. \ \frac{4x}{3} - 2 = 2$$

$x = 3$

$$5. \ 2\left(\frac{2x}{3} - 1\right) = 2$$

$x = 3/2$

$$6. \ 2\left(\frac{2x}{3} - 1\right) + \frac{2x}{3} = 2$$

$x = 2$

$$7. \ 4x + 5 = 3(x + 1)$$

$x = -2$

$$8. \ \frac{4x+2}{3} = \frac{3x-2}{4}$$

$x = -2$

Factorise as far as possible:

1. $3x^2 + 6x = 3x(x + 2)$

2. $4x^3 - 6x^2 + 8x^4 = 2x^2(4x^2 + 2x - 3)$

3. $9x^2 - 4 = (3x + 2)(3x - 2)$

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

Solve

1. $x^2 + 3x - 4 = 0$

$x = -4, x = +1$

2. $x^2 - 3x - 4 =$

$x = +4, x = -1$

3. $x^2 + 4x + 4 = 0$

$x = -2$

4. $4x^2 + 12x - 16 = 0$

$x = -4, x = +1$

5. $2x^2 - 6x - 8 = 0$

$x = -1, x = +4$

END