

Basic Algebra Worksheet with Answers

$$\text{Solve } 5x = -4 : x = -\frac{4}{5} \quad (1)$$

$$\text{Expand } 8x^2(x + 4) : 8x^3 + 32x^2 \quad (2)$$

$$\text{Simplify } x \times x \times x \times x : x^4 \quad (3)$$

$$\text{Make } x \text{ the subject in } 7(x - 10) = y : x = \frac{y + 70}{7} \quad (4)$$

$$\text{Make } z \text{ the subject in } -3x = -3y - 4z : z = \frac{3x - 3y}{4} \quad (5)$$

$$\text{Expand } -2x(x - 9) : -2x^2 + 18x \quad (6)$$

$$\text{Solve } x + x + x = 7 : x = \frac{7}{3} \quad (7)$$

$$\text{Solve } \frac{8x}{10} = -7 : x = -\frac{35}{4} \quad (8)$$

$$\text{Factorize } -11x^2 + 132x : -11x(x - 12) \quad (9)$$

$$\text{Factorize } 10x^2 - 20xy : 10x(x - 2y) \quad (10)$$

$$\text{Simplify } y + x^3 + y + x^3 : 2y + 2x^3 \quad (11)$$

$$\text{Factorize } 6x^2 - 18xy : 6x(x - 3y) \quad (12)$$

$$\text{Expand } 5x(x^2 - 4) : 5x^3 - 20x \quad (13)$$