

Basic Algebra Test ANSWERS

1) $5x + 2$

2) $4x - 8$

3) $3(2x - 1)$

4) $4(x + 2) - 2 = 4x + 8 - 2 = 4x + 6$

5) $10 + x = 5$

6) :

a. $2x + 1 = 9$

$$2x = 8$$

$$x = 4$$

b. $12 = 10 - 2x$

$$2 = -2x$$

$$-1 = x$$

c. $3x = x - 6$

$$2x = -6$$

$$x = -3$$

d. $5(x - 2) = 1$

$$5x - 10 = 1$$

$$5x = 11$$

$$x = 2.2$$

e. $1 - 2x = 0$

$$-2x = -1$$

$$x = \frac{1}{2}$$

f. $2x + 5 = 1$

$$2x = 6$$

$$x = 3$$

g. $10 - x = 20$

$$-x = 10$$

$$x = -10$$

h. $\frac{2}{5}x - 6 = 4$

$$\frac{2}{5}x = 10$$

$$x = \frac{5}{2} \times 10$$

$$x = 25$$

i. $0.2x - 10 = 0$

$$0.2x = 10$$

$$x = 50$$