

# Algebra Answers

1. 16, 25  
2.  $n-1, n, n+1$   
3. y intercept = 5  
gradient =  $\frac{5}{3}$

Equation of a straight line -  $y = mx + c$

$$y = \frac{5}{3}x + 5$$

4.  $9p + 11a$   
5.  $13m^2 - 7r$   
6.  $32b^5$   
7.  $d^5$   
8.  $10a^5$   
9.  $625k^8$   
10.  $-18g^4$   
11.  $\frac{28e}{30} = \frac{14e}{15}$   
12.  $15f + 20$   
13.  $4x - 21$   
14.  $x^2 + 5x - 14$   
15.  $2(2y - 5)$   
16.  $2x^3y^4(3x^2 - 10y^2)$

17.  $x^2 + 8x + 15$   
 $x^2 + 5x + 3x + 15$   
 $x(x+5) + 3(x+5)$   
 $(x+3)(x+5)$

18.  $2x^2 + 7x - 4 = 0$

$$2x - 4 = -8$$

8x - x

$$2x^2 + 8x - x - 4 = 0$$

$$2x(x+4) - 1(x+4) = 0$$

$$(2x-1)(x+4) = 0$$

Either  $2x-1 = 0$

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

or

$$x+4 = 0$$

$$x = -4$$

Either  $x = \frac{1}{2}$  or  $-4$

$$J + \underline{5} = 12$$

$$x = 9$$

$$k = 50$$

$$x = 5 \text{ or } x = -7$$

$$f = \frac{-11}{5}$$

$$E = 1.5\% \times S + 600$$

$$\$ 622.50$$