Substitution

1) $y = 5x$

   a) Work out the value of y when $x = 3$

   b) Work out the value of y when $x = -2$

2) $y = 2x + 7$

   a) Work out the value of y when $x = 4$

   b) Work out the value of y when $x = -3$

3) $y = 2x + 4t$

   $x = 6$

   $t = 1$

   Work out the value of y.

4) $y = 2a - 3b$

   $a = 4$

   $b = -2$

   Work out the value of y.

5) $v = 3a + 5b$

   $a = 6$

   $b = -3$

   Work out the value of v.

6) $y = x^2$

   a) Work out the value of y when $x = 6$

   b) Work out the value of y when $x = -4$

7) $y = 2x^2$

   a) Work out the value of y when $x = 5$

   b) Work out the value of y when $x = -3$

8) $y = 3x^2 + 2x$

   a) Work out the value of y when $x = 2$

   b) Work out the value of y when $x = -4$

9) $v = u^2 + 5as$

   $u = 6$

   $a = 2.5$

   $s = 9$

   Work out the value of v.

10) $y = p - 2qx^2$

   $p = -10$

   $q = 2$

   $x = -5$

   Work out the value of y.

11) $v^2 = u^2 + 2as$

   $u = 6$

   $a = 2.5$

   $s = 9$

   Work out the value of v.

12) $v^2 = u^2 + 2as$

   $u = 3$

   $a = 9.8$

   $s = 12$

   Work out the value of v.
   Give your answer correct
   to 1 decimal place

13) $s = ut + 0.5at^2$

   $a = 9.8$

   $t = 5$

   $u = 7$

   Work out the value of s.