

1) Factorise

a) $3x + 6$

b) $x^2 - 16$

c) $x^2 + 4x$

d) $x^2 + 5x + 6$

e) $x^2 - 2x - 15$

f) $x^2 - 7x + 12$

2) Solve these equations

a) $x^2 - 6x = 0$

b) $x^2 - 5x + 4 = 0$

3) Factorise

a) $2x^2 + 5x + 2$

b) $3x^2 - 7x + 2$

4) Solve these equations (Hint: Use your answers from Q3)

a) $2x^2 + 5x + 2 = 0$

b) $3x^2 - 7x + 2 = 0$

5) Solve to 2 decimal places

$$2x^2 - 4x - 3 = 0$$

6) Solve these equations

a) $(x+2)(x-3) = 0$

b) $x^2 = 5x$

c) $(x-3)(x+4) = 18$

d) $4x^2 = 6x + 4$

7) Simplify $\frac{2}{(x+1)} + \frac{3}{(x-2)}$

8) Solve the equation

$$\frac{6}{y} + \frac{3}{(y+1)} = 4$$

9) Solve the equation

$$\frac{5}{(x-2)} - \frac{3}{(x+2)} = 2$$