Topics covered:

- Chapter 1 (Algebraic Expressions and Formulae)
- Chapter 2.1 & 2.2
 - Quadratic Equations by factorisation
 - Completing the square
- 1. (a) Make x the subject of the formula $y = a + \frac{3by}{2x}$ (b) Hence, find the value of x when a = 3, b = -2 and y = 4

Answer: (a) _____

(b) *k* =____

2. Express $\frac{5}{x-y} - \frac{3}{y-x}$ as a single fraction in its simplest form.

Answer: _____

3. Solve the equation $\frac{6}{3c+1} - \frac{3}{2c-3} = 0$

Answer: c =___or___

4. Expand each of the following expressions.

(a)
$$(x + 3y)(2x + y + 5)$$

(b)
$$(x-3)(x^2+4x-7)$$

Answer: (a) _____

(b) _____

5. Factorise each of the following expressions completely.

(a)
$$6m + 9mn + 3pn + 2p$$

(b)
$$5f(3-2x)-(2x-3)$$

6. Write
$$x^2 + 10x + 11$$
 in the form $(x + p)^2 + q$

7. Solve
$$3x^2 + 10x + 7 = 0$$
 by factorisation.

Answer:
$$x =$$
____or $x =$ ____

WA1 Mock Test

- 8. Express each of the following as a fraction in its simplest form.

 - (a) $\frac{2}{x-3} + \frac{3}{(x-3)^2}$ (b) $\frac{2}{(x-1)(x+2)} + \frac{3}{(x+2)(x-3)}$ (c) $\frac{4}{x^2-4} + \frac{1}{2-x}$

Answer: (a) ______

(b) _____

(c) _____