8 **(a)** Solve.

$$10 - 3p = 3 + 11p$$

$p =$ ..... [2]

(b) Make m the subject of the formula.

$$mc^2 - 2k = mg$$

$m =$ ..... [3]

(c) Solve.

$$\frac{1}{x-3} + \frac{4}{2x+3} = 1$$

$x =$ ..... or $x =$ ..... [5]

(d) Solve the simultaneous equations.
You must show all your working.

$$x + 2y = 12$$
$$5x + y^2 = 39$$

$x =$ …….. $y =$ ……

$x =$ …….. $y =$ …… [5]

(e) Expand and simplify.

$$(2x - 3)(x + 6)(x - 4)$$

..... [3]