

**M1.**Draws  $3x + 2y = 6$ *B1 Works out or plots at least two points satisfying  $3x + 2y = 6$* *eg (2, 0) and (0, 3)***B2** $x = 2.5$  and  $y = -0.7$ *ft their graph* *$\pm \frac{1}{2}$  square***B1ft****[3]****M2.**(a) Correct line with  $-1\frac{1}{2}$  labelled*B1 For line through (3, 0) without  $-1\frac{1}{2}$  labelled  
or**for line with positive gradient through (0,  $-1\frac{1}{2}$ ) (labelled), but  
not passing through (3, 0)***B2**(b)  $x(x-3) = \frac{(x-3)}{2}$ *oe e.g.  $2x^2 - 6x = x - 3$  or  $2x^2 - 7x + 3 = 0$   
or  $(2x - 1)(x - 3) = 0$  or  $x^2 - 3.5x + 1.5 = 0$* **M1**

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

**A1****[4]****M3.**

(a) (5, 0)

$(5x, 0y)$  is B0

Check diagram for answer written next to P if answer line is blank

**B1**

(b) Correct elimination of a letter

e.g.  $2x = 15 - 3x$

oe e.g.  $y = 15 - \frac{3}{2}y$

**M1**

Correctly collects terms

e.g.  $2x + 3x = 15$

oe e.g.  $y + \frac{3}{2}y = 15$

**M1dep**

(3, 6)

Allow  $x = 3$  and  $y = 6$  if not contradicted on answer line

**A1**

(c)  $\frac{1}{2} \times$  their 5  $\times$  their 6

oe e.g.  $\frac{2 \times 6}{2} + \frac{3 \times 6}{2}$

their 5 from (a) and their 6 from (b)

**M1**

15

ft their 5 from (a) and their 6 from (b)

**A1ft**

**[6]**