

Simultaneous Equations 2

1. Solve the following pairs of equations

(a) $2a + 3c = 9$
 $3a + c = 10$

(b) $3m - 2n = 16$
 $2m + 3n = 15$

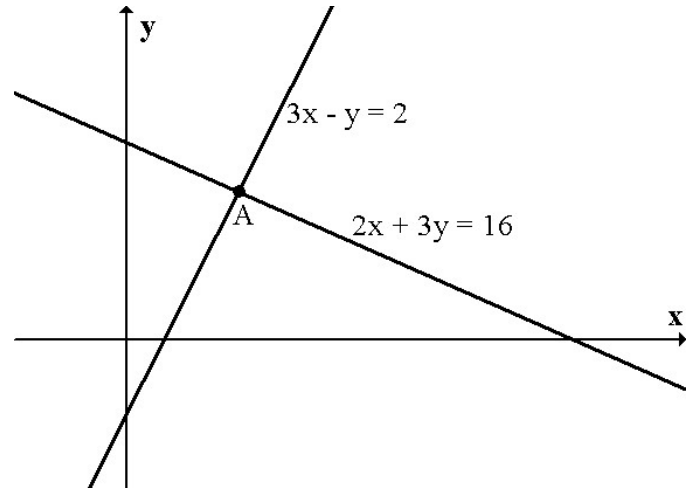
(c) $2p - 4q = -30$
 $5p - 3q = -5$

(d) $4x + 2y = -10$
 $3x - 5y = -1$

2. The diagram opposite shows the lines

$$3x - y = 2 \quad \text{and} \quad 2x + 3y = 16$$

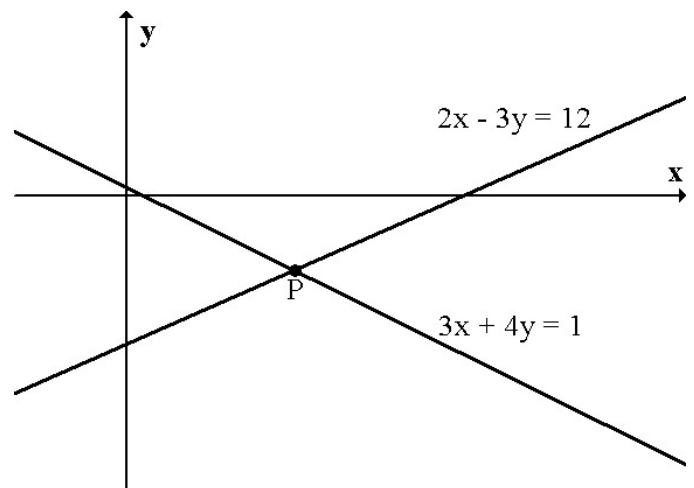
Find the coordinates of A, the point of intersection of these lines.



3. The diagram opposite shows the lines

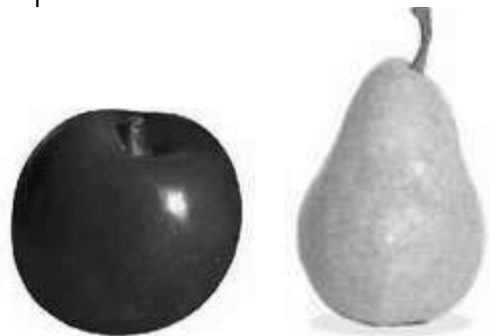
$$2x - 3y = 12 \quad \text{and} \quad 3x + 4y = 1$$

Find the coordinates of P, the point of intersection of these lines.



4. 2 apples and 5 pears cost 90 pence.
3 apples and a pear cost 57 pence.

Find the cost of an apple and of a pear.



5. 6 pens and 4 pencils cost £1.08.
4 pens and 3 pencils cost 75 pence.

Find the cost of 5 pens and 5 pencils.

