Simultaneous Equations

1)

Solve algebraically the system of equations

$$3x + 2y = 17$$

$$2x + 5y = 4$$
.

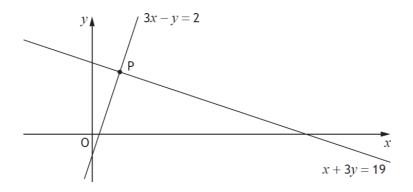
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2)

The graph below shows two straight lines with the equations:

•
$$3x - y = 2$$

•
$$x + 3y = 19$$



The lines intersect at the point P.

Find, algebraically, the coordinates of P.

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3)

Joan buys gold and silver charms to make bracelets.

2 gold charms and 5 silver charms cost £125.

(a) Let g pounds be the cost of one gold charm and s pounds be the cost of one silver charm.

Write down an equation in terms of g and s to illustrate the above information.

4 gold charms and 3 silver charms cost £145.

(b) Write down another equation in terms of g and s to illustrate this information.

(c) Hence calculate the cost of each type of charm.

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4)

Solve algebraically the system of equations

$$2x - 3y = -5$$

$$y = 2x - 1$$

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