1 Solve algebraically the simultaneous equations

$$x^2 + y^2 = 25$$
$$y - 2x = 5$$

$$y-2x=5$$

2 Solve algebraically the simultaneous equations

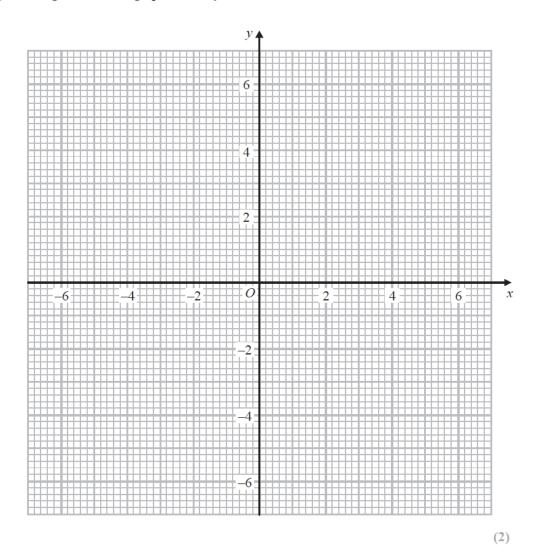
$$x^2 + y^2 = 25$$
$$y - 3x = 13$$

3 Solve the simultaneous equations

$$3x + y = -4$$
$$3x - 4y = 6$$

y =

4 (a) On the grid, draw the graph of $x^2 + y^2 = 12.25$



(b) Hence find estimates for the solutions of the simultaneous equations

$$x^2 + y^2 = 12.25$$
$$2x + y = 1$$

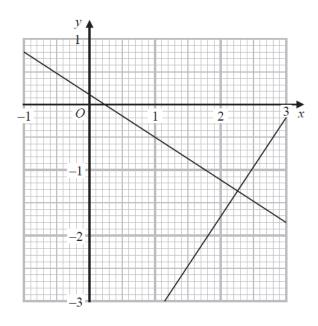
(3)

5	Solva	tha	cimul	Itanaoue	equations
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$$5x + y = 21$$
$$x - 3y = 9$$

<i>x</i> =	 	 	 	
v =	 			

6 The graphs with equations $3y + 2x = \frac{1}{2}$ and $2y - 3x = -\frac{113}{12}$ have been drawn on the grid below.



Using the graphs, find estimates of the solutions of the simultaneous equations

$$3y + 2x = \frac{1}{2}$$

$$2y - 3x = -\frac{113}{12}$$

x =

y =

7	Solve	algebraically	the	simultaneous	equations

$$x^2 - 4y^2 = 9$$
$$3x + 4y = 7$$