

ANSWER WORKSHEET 2

1. Given $y=4x + 5$.

So when $x= -2$, $y= 4 \times (-2) + 5$

$$= -8 + 5$$

$$= -3$$

2. Given $y=25- 3x$

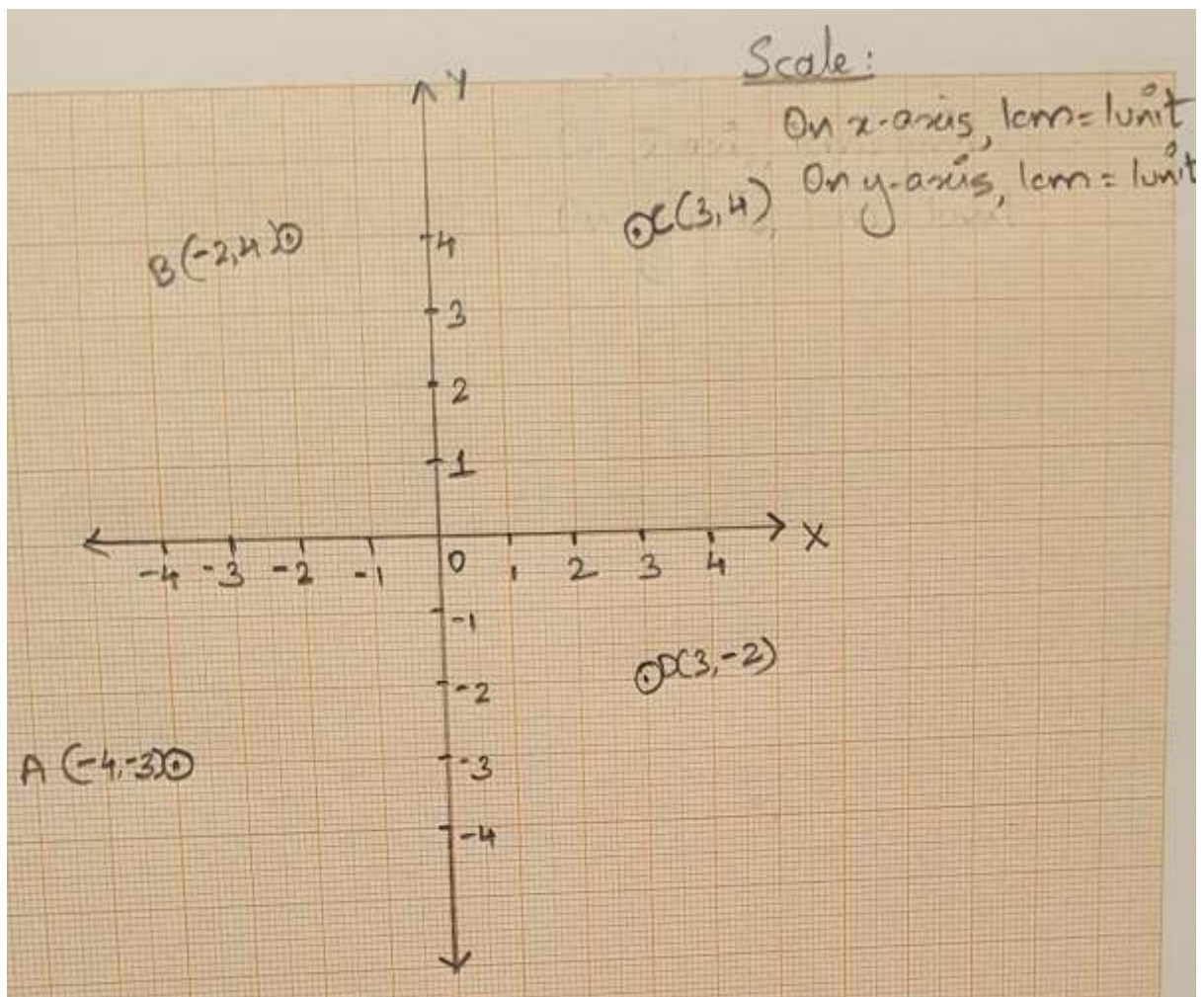
So when $y= 34$, $34 = 25 - 3x$

$$3x = 25-34$$

$$3x = - 9$$

$$x = \frac{-9}{3} = -3$$

3. The points are A(-4,-3), B(-2,4), C(3,4), D(3,-2)



4.

(i) $y=3x + 7$

When $x = -4$,

$$\begin{aligned}y &= 3 \times (-4) + 7 \\ &= -12 + 7 \\ &= -5\end{aligned}$$

when $x = 0$,

$$\begin{aligned}y &= 3 \times 0 + 7 \\ &= 0 + 7 \\ &= 7\end{aligned}$$

when $x = 4$,

$$\begin{aligned}y &= 3 \times 4 + 7 \\ &= 12 + 7 \\ &= 19\end{aligned}$$

x	-4	0	4
y	-5	7	19

(ii) $y=3x + 5$

When $x = -4$,

$$\begin{aligned}y &= 3 \times (-4) + 5 \\ &= -12 + 5 \\ &= -7\end{aligned}$$

when $x = 0$,

$$\begin{aligned}y &= 3 \times 0 + 5 \\ &= 0 + 5 \\ &= 5\end{aligned}$$

when $x = 4$,

$$\begin{aligned}y &= 3 \times 4 + 5 \\ &= 12 + 5 \\ &= 17\end{aligned}$$

x	-4	0	4
y	-7	5	17

(iii) $y=3x - 3$

When $x = -4$,

$$\begin{aligned}y &= 3 \times (-4) - 3 \\ &= -12 - 3 \\ &= -15\end{aligned}$$

when $x = 0$,

$$\begin{aligned}y &= 3 \times 0 - 3 \\ &= 0 - 3 \\ &= -3\end{aligned}$$

when $x = 4$,

$$\begin{aligned}y &= 3 \times 4 - 3 \\ &= 12 - 3 \\ &= 9\end{aligned}$$

x	-4	0	4
y	-15	-3	9

(iv) $y=3x - 6$

When $x = -4$,

$$y = 3 \times (-4) - 6$$

$$= -12 - 6$$

$$= -18$$

when $x = 0$,

$$y = 3 \times 0 - 6$$

$$= 0 - 6$$

$$= -6$$

when $x = 4$,

$$y = 3 \times 4 - 6$$

$$= 12 - 6$$

$$= 6$$

x	-4	0	4
y	-18	-6	6

