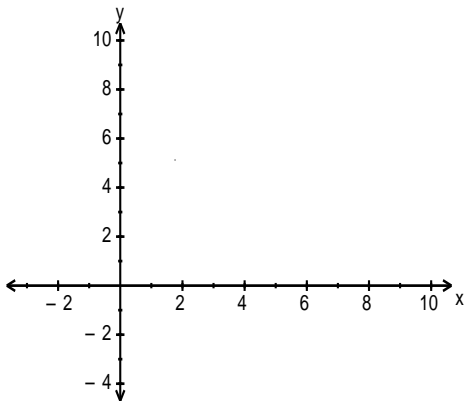


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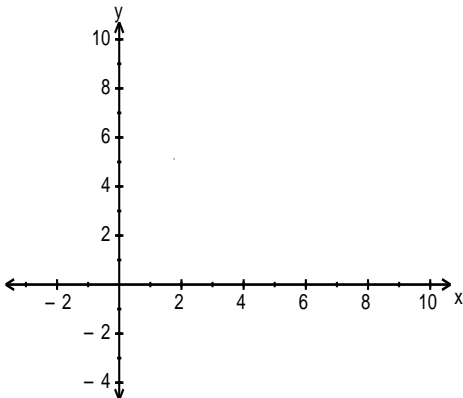
Due Date: Tuesday 26<sup>th</sup> May

1. Draw the following points and then calculate the gradient of the lines joining them by using  $\frac{\text{rise}}{\text{run}}$ .

a) (3, 5) and (5, 9)



b) (-1, 6) and (3, 4).



(2+2)

2. Expand each expression and simplify:

a)  $\sqrt{2}(\sqrt{3} + \sqrt{2})$

b)  $(\sqrt{7} - 2\sqrt{2})(\sqrt{7} + 2\sqrt{2})$

(1 + 2)

2. Complete the tables by using the rule given

a)  $y = 3x - 2$

<b>x</b>	-3	-2	-1	0	1	2	3
<b>y</b>							

b)  $y = -2x + 5$

<b>x</b>	-3	-2	-1	0	1	2	3
<b>y</b>							

(2+2)

3. Simplify each of the following: no calculator

a)  $\sqrt{24}$

b)  $\sqrt{60}$

c)  $\sqrt{150}$

d)  $\sqrt{a^2}$

(4)

4. Simplify each expression:

a)  $4\sqrt{5} - 3\sqrt{5} + \sqrt{5}$

b)  $2\sqrt{6} - 3\sqrt{3} + 4\sqrt{6} + \sqrt{3}$

c)  $5\sqrt{3} - 6\sqrt{2} + 4\sqrt{2}$

d)  $\sqrt{27} - \sqrt{3}$

e)  $3\sqrt{28} + 2\sqrt{63}$

f)  $2\sqrt{3} \times 3\sqrt{5}$

g)  $3\sqrt{3} \times -\sqrt{6}$

(9)