

Geometry With Classified answer book



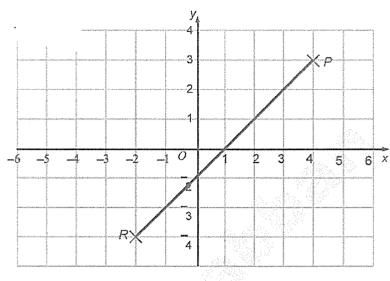
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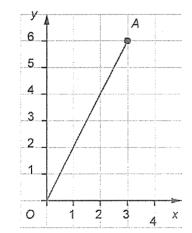
10- Points on a line segment

1.



- (a) On the grid, mark the point (-3, 1) with a cross (×).
- (b) On the grid, mark the point (-3, -1) with a cross (x). Label the point Q.

- 2. The diagram shows the points O (0, 0) and A (3, 6). find the coordinates of the points that lie
 - a $\frac{1}{3}$ of the way along OA

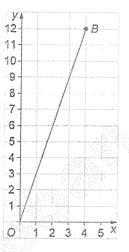


b $\frac{2}{3}$ of the way along OA.

3. The diagram shows the points O (0, 0) and B (4, 12). find the coordinates of the points that lie







- 4. O is the point (0, 0) and A is the point (5, 8). Points A and B are equally spaced along the same line such that the distance OA is equal to the distance AB.
 - a What are the coordinates of point B?

0

0

(.....)

b C is the next point along the same line such that distance BC is equal to distances OA and AB. What are the coordinates of point C?

(.....)

5. O is the point (0, 0) and J is the point (42, 54). Points E, F, G, H and I are equally spaced along the line OJ.

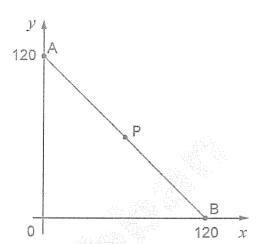
Work out the coordinates of H.

(....

6. C is the point (4, 1) and D is the point (10, 13). E is the point that lies - of the way along Work out the coordinates of ECD. 7. F is the point (2, 3) and G is the point (7, 18). H is the point that lies $\frac{2}{5}$ of the way along FG. Work out the coordinates of H. 8. O is the point (0, 0) and A is the point (8, 10). A lies $\frac{2}{3}$ of the way along the line segment OB. think that B is the Is Dor's correct? Justify your answer! point (12, 15). Hana Dors I think that the ratio of the length of QA: AB is 3:2 Is Hana correct? Justify your answer.

9. P is at half distance of line AB.

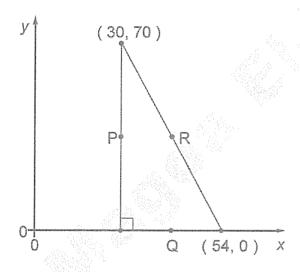
What are the coordinates of point P?



- P is (.....)
- 10. The diagram shows a right-angled triangle.

0

0



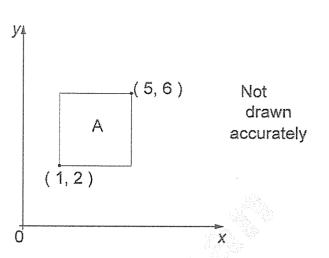
Not drawn accurately

P, Q and R are the half way of the sides of the triangle. Work out the coordinates of P, Q and R.

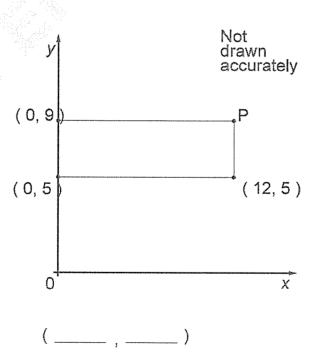
11. Look at the square drawn on the graph. y_{\downarrow}

Point A is the centre of the square.

What are the coordinates of point A?



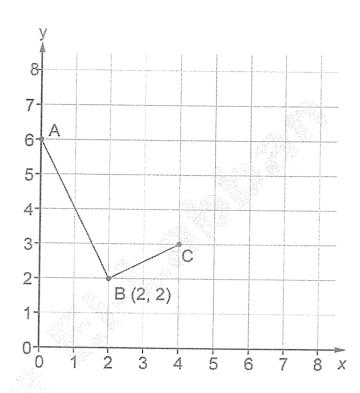
12. The graph shows a rectangle.Write the coordinates of point P



13. (a) Look at the graph.

Write down the coordinates of points A and C.

0



(b) Point D can be marked so that ABCD is a rectangle.

Mark point D accurately on the graph.