Summer Term Maths Year 10

Use Pythagoras' Theorem to find the length of a line segment

Day 4

Week 11

1 Calculate each of the following.

a) $(5-1)^2$

b) $(1-5)^2$

c) $(1-(-5))^2$

d) $((-5)-1)^2$

2 Calculate each of the following to 2 decimal places.

(a) $\sqrt{4^2+1^2}$

(b) $\sqrt{4^2+(-1)^2}$

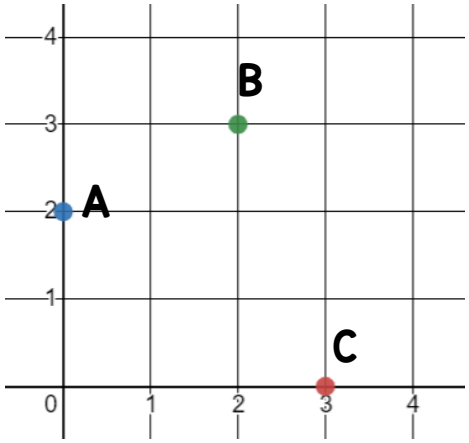
(c) $\sqrt{(4-2)^2+(1-(-2))^2}$

3 Find the coordinates of the points described.

a) 4 left and 3 up from (3, 7)

b) 4 left and 3 up from (– 3, 7)

4



a) Find the lengths OA and OC.

b) Use Pythagoras' theorem to find the exact length of AC.

c) Find the length of AB to 3 significant figures.

d) Find the perimeter of the quadrilateral OABC to 3 significant figures.

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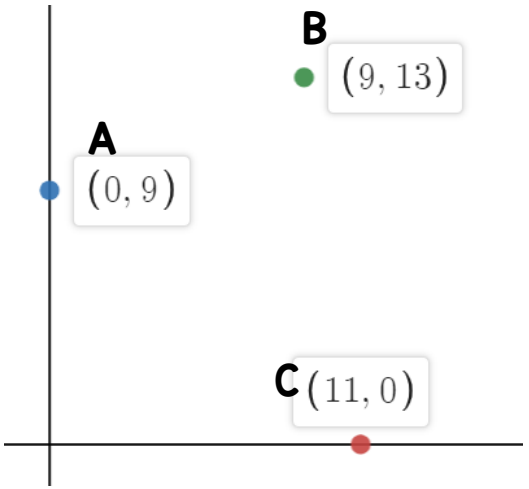
5



a) Find the distance from the origin to the point B to 3 significant figures.

b) Find the perimeter of the triangle AOC, where O is the origin.

c) Find the distance between the point $(-2, 0)$ and the point A.

6 Find the distance between each pair of points.

a) (0, 0) and (4, 9)

b) (2, 0) and (4, 9)

c) $(-2, 0)$ and (4, 9)

d) $(-2, -2)$ and (4, 9)

7 The points A and B both on the line $y = 3x - 8$ A has x-coordinate 3 and B has x-coordinate -4

Find the distance between A and B.

White Rose Maths