

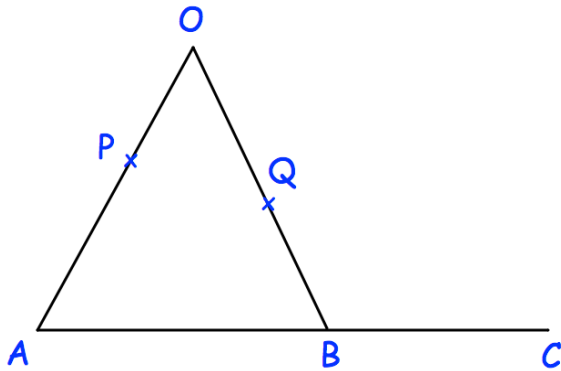
20th May



Corbettmaths

$$\sin(x^\circ) = -0.5$$

Write down 3 different possible values of  $x$



AOB is a triangle.  
P is a point on AO.

$$\vec{AB} = 2\mathbf{a}$$

$$\vec{AO} = 6\mathbf{b}$$

$$AP:PO = 2:1$$

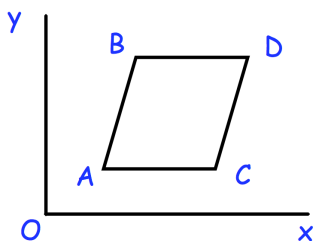
Find the vector  $\vec{OB}$

Q is the midpoint of OB.  
B is the midpoint of AC.  
Show PQC is a straight line.

Solve the simultaneous equations

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

$$x + 2y = 1$$



ABCD is a rhombus

The coordinates of B are (2, 15)

The equation of diagonal AD is  $y = \frac{1}{2}x + 4$

Find the equation of diagonal BC