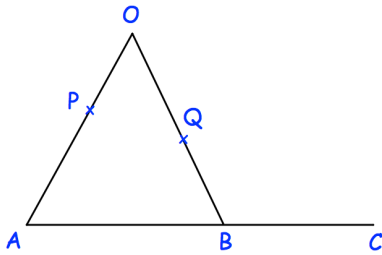


26th September

Corbettmaths

Given $f(x) = x^2 + 2$ and $g(x) = x + 14$

Find the values of a such that $f(a) = g(a)$



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

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

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

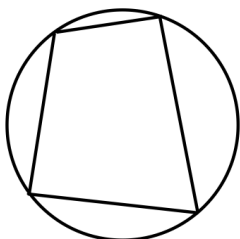
$$AP:PO = 2:1$$

Q is the midpoint of OB.
B is the midpoint of AC.

Show PQC is a straight line.

Simplify

$$(81x^8)^{-\frac{3}{4}}$$



Prove the opposite angles in a cyclic quadrilateral add to 180°