

9th January



Corbettmaths

Simplify

$$\frac{18x^{\frac{5}{4}}}{6x}$$

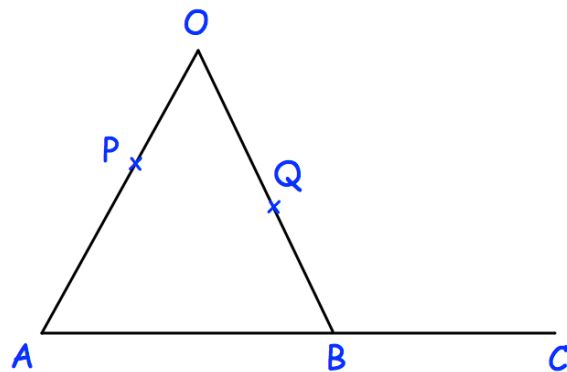
Find the equation of the straight line passing through B(-2, 8) and C(1, 0).

Give your answer in the form $ax + by + c = 0$

where a, b and c are integers.

Express $3x^2 + 12x + 13$ in the form $a(x + b)^2 + c$

Find the vector \vec{OB} in terms of **a** and **b**



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

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

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

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

$$AP:PO = 2:1$$