

15th April



Corbettmaths

Work out

$$64^{2/3}$$

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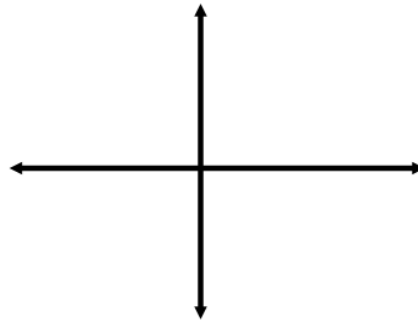
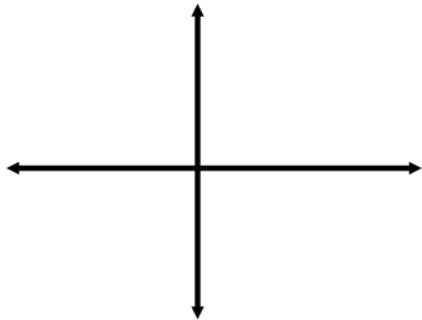
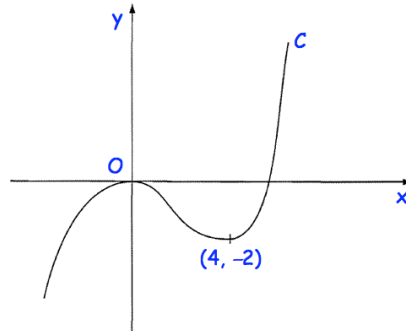
$$\left(\frac{8}{125}\right)^{-2/3}$$

Shown is $y = f(x)$

Sketch

a) $f(x) - 1$

b) $f(x - 1)$



Given

$$y = \frac{4x^2 - x^{5/3}}{\sqrt{x}}$$

Find

$$\frac{dy}{dx}$$

The curve

$$y = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$$

has turning points at A and B.

Find the distance AB.