

9th Feb



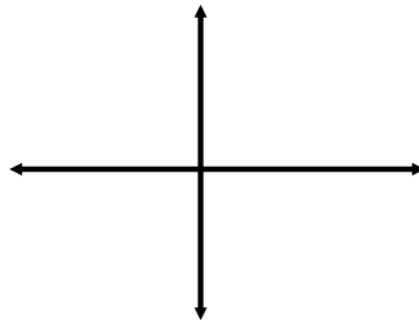
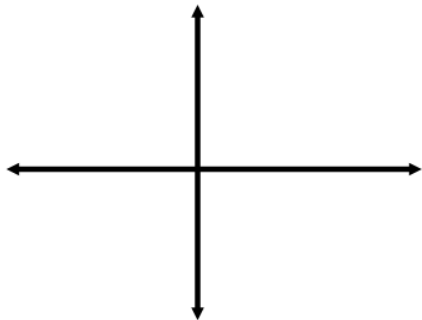
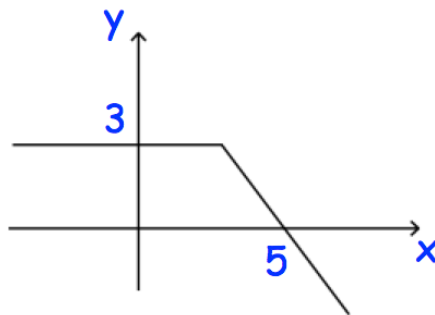
Corbettmaths

Simplify

$$\frac{2 + \sqrt{3}}{\sqrt{5} - \sqrt{2}}$$

Shown is the graph of $y = f(x)$

Sketch

(a) $f(x) + 1$ (b) $-f(x)$ 

Given

$$f(x) = \frac{(7 + 3\sqrt{x})^2}{\sqrt[3]{x}}$$

Find $f'(x)$

The points A, B and C have coordinates $(3, -4)$, $(9, 1)$ and $(-5, 6)$ respectively.

The line through C perpendicular to AB intersects AB at the point D. Find D.