

13th April



Corbettmaths

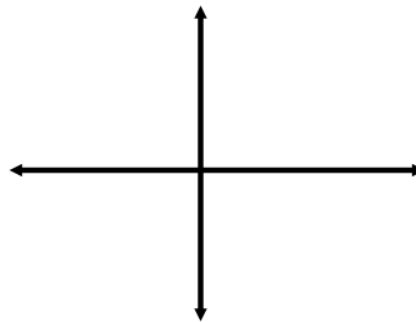
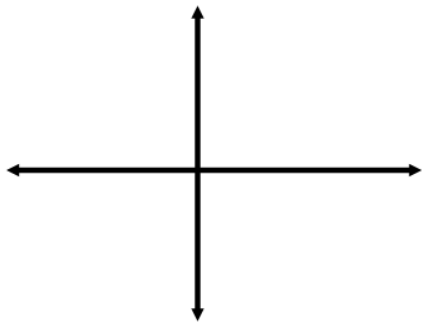
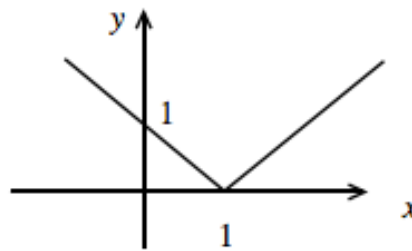
Given that

$$27\sqrt{3} = 3^a$$

Find a

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

Sketch

(a) $f(x) + 1$ (b) $f(x - 1)$ Find the equation of the normal to the curve $y = 4x^3 - 5x^2 + x - 8$ at the point where $x = 2$ Write $x^2 + 5x + 3$ in the form $(x + a)^2 + b$