

10th August

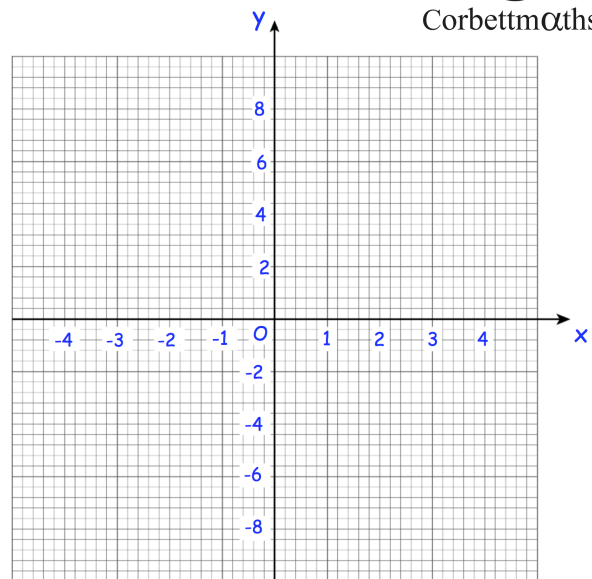
Corbettmaths

A function $f(x)$ is defined as

$$f(x) = 10 + x - x^2 \quad -3 \leq x < -1$$

$$= x^2 + 7 \quad -1 \leq x < 1$$

$$= \frac{8}{x} \quad 1 \leq x \leq 4$$

Draw the graph of $y = f(x)$ 

$$y = \frac{8}{x^4}$$

Find $\frac{dy}{dx}$ Rationalise and simplify $\frac{17\sqrt{3} + 5\sqrt{5}}{2\sqrt{3} - \sqrt{5}}$ Prove $\tan\theta \cos\theta \equiv \sin\theta$