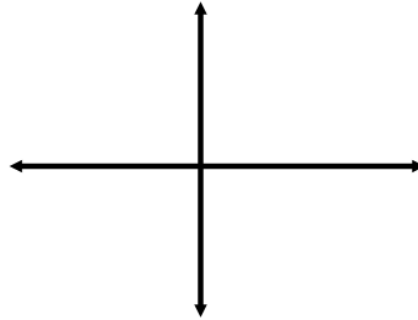**14th March**

Corbettmaths

Find the value of

$$625^{-\frac{3}{4}}$$

Sketch $y = -x^2 + 4x + 5$

Find the coordinates where the graphs below intersect.

$$y = \frac{-1}{x} \text{ and}$$

$2x + 2y - 3 = 0$

Given that

$$y = 2x^5 - \sqrt[3]{x}, \qquad x > 0$$

Find

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

Find

$$\frac{d^2y}{dx^2}$$

Find

$$\int y \, dx$$