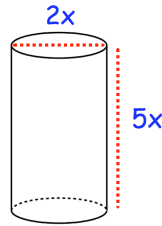


20th August



Corbettmaths

The cylinder has a surface area of $972\pi \text{ cm}^2$.
Find x .



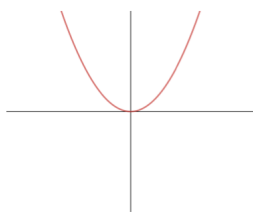
Simplify fully

$$\frac{x^3 - x}{x + 2} \div \frac{x^2 - x}{x^2 - 5x - 14}$$

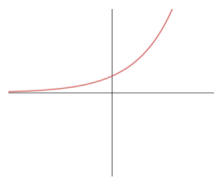
$$\frac{81^y}{3^{y-5}} = 3\sqrt{3}$$

Find y

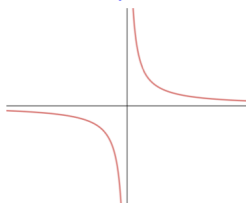
Graph A



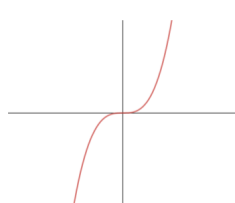
Graph B



Graph C



Graph D



$y = x^2$ is graph A

$y = x^3$ is graph

$y = 2^x$ is graph

$y = \frac{1}{x}$ is graph