

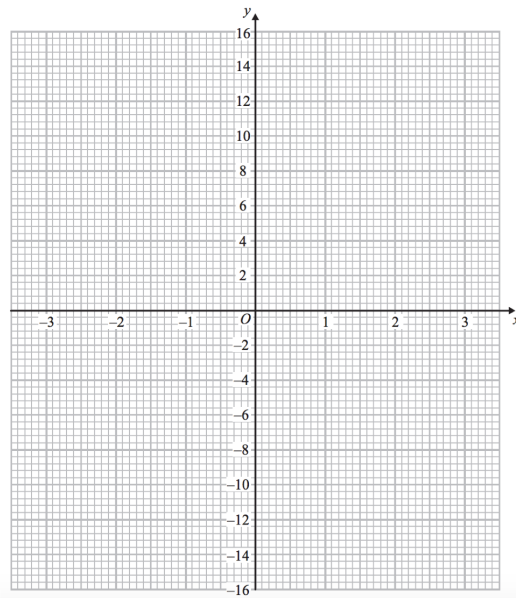
8th July

Higher 5-a-day



Corbettmaths

Draw  $y = x^3 + 2x^2 - 1$  on the grid below for values of  $x$ ,  $-3 \leq x \leq 2$

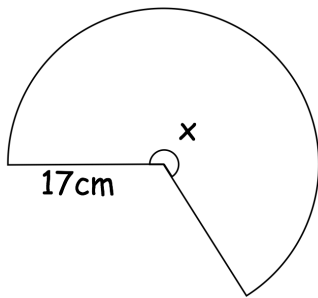


Find the value of  $16^{-\frac{3}{4}}$

The table shows a set of values for  $x$  and  $y$ .  
 $y$  is directly proportional to the square root of  $x$

$x$	25	
$y$	9	36

Complete the table.



The area of the sector is  $550\text{cm}^2$   
Find  $x$ .

Simplify fully

$$\sqrt{\frac{50\pi a^5}{2\pi a^3}}$$