

Name: \_\_\_\_\_

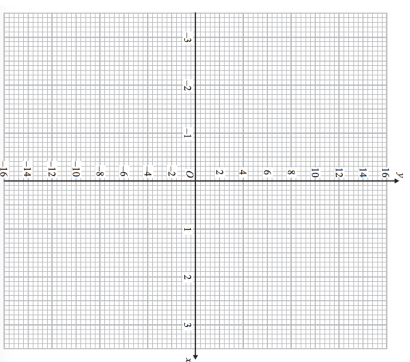
5-a-day

Higher

8th July

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

Corbettmaths

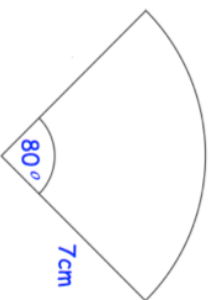


length, $L$ , cm	Frequency
$0 < L \leq 10$	21
$10 < L \leq 20$	11
$20 < L \leq 30$	31
$30 < L \leq 40$	12
$40 < L \leq 50$	25

Lenny is drawing a histogram.

Calculate each frequency density.

Calculate the area of this sector.



Simplify fully

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

Name: \_\_\_\_\_

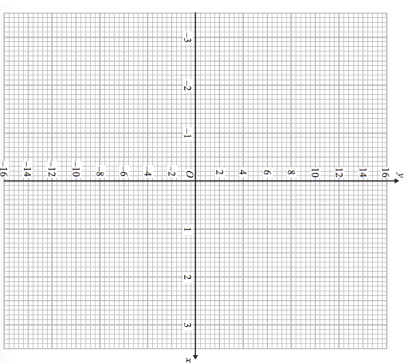
5-a-day

Higher

8th July

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

Corbettmaths

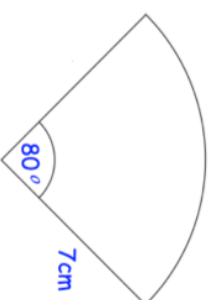


length, $L$ , cm	Frequency
$0 < L \leq 10$	21
$10 < L \leq 20$	11
$20 < L \leq 30$	31
$30 < L \leq 40$	12
$40 < L \leq 50$	25

Lenny is drawing a histogram.

Calculate each frequency density.

Calculate the area of this sector.



Simplify fully

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