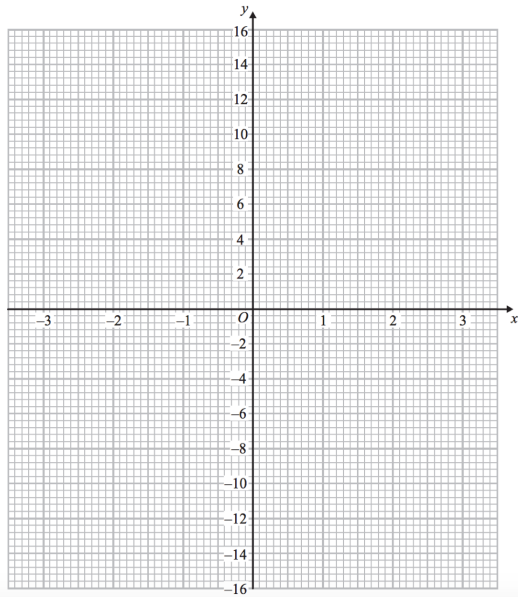


8th July



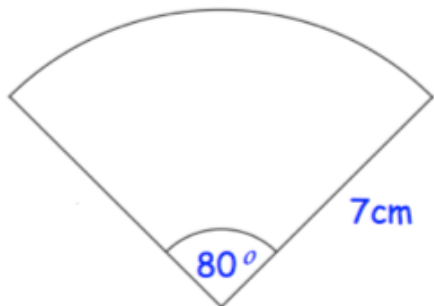
Corbettmaths

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



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

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