Name: _____ 5-a-day Higher

27th June

Corbettmaths

Evaluate $25^0 + 25^{\frac{1}{2}}$

$1 + 5 = 6$

A is directly proportional to C^3.
When A = 800, C = 2.

Find A when C = 5

$A \propto C^3$

$A = kC^3$

$800 = k \times 2^3$

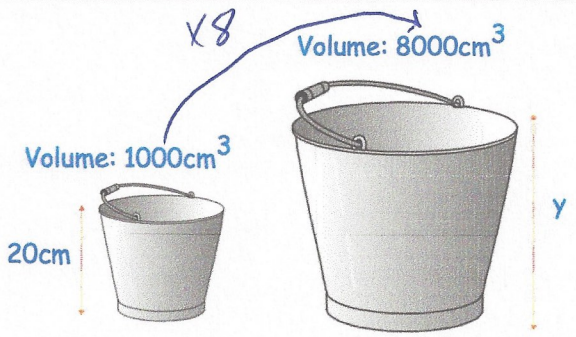
$k = 100$

$A = 100C^3$

$A = 100 \times 5^3$

$= 100 \times 125$

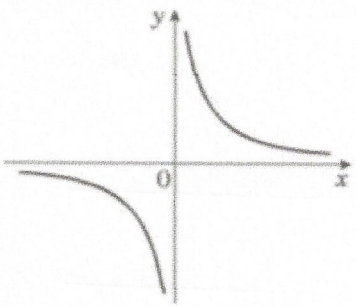
$A = 12500$



The two buckets below are similar.
Find y.

$\sqrt[3]{8} = 2$

$20 \times 2 = 40cm$



What graph is shown?

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

Make x the subject

$y(x-8) = x+7$

$xy - 8y = x + 7$

$xy - x = 8y + 7$

$x(y-1) = 8y + 7$

$x = \frac{8y+7}{y-1}$

$$y = \frac{x+7}{x-8}$$