



Work out $25^0 + 25^{\frac{1}{2}}$

$$1 + 5 = 6$$

A is directly proportional to C^3 .

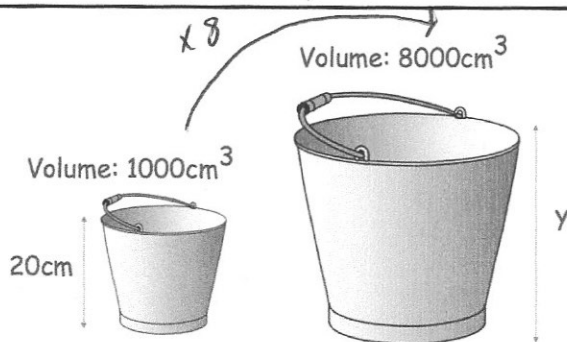
When $A = 800$, $C = 2$.

Find A when $C = 5$

$$\begin{aligned} A &\propto C^3 \\ A &= kC^3 \\ 800 &= k \times 2^3 \\ k &= 100 \end{aligned}$$

$$A = 100C^3$$

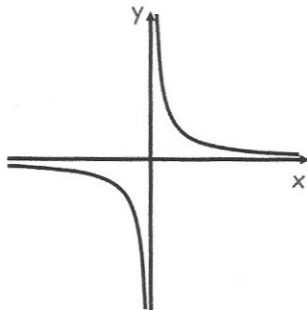
$$\begin{aligned} A &= 100 \times 5^3 \\ &= 12500 \end{aligned}$$



The two buckets below are similar.

Find y. $\sqrt[3]{8} = 2$

$$20 \times 2 = 40\text{cm}$$



Which of the following graphs is shown?

$$y = x^3$$

$$y = 3^x$$

$$y = \frac{3}{x}$$

$$y = \sqrt[3]{x}$$

Make x the subject

$$y = \frac{x - 11}{x + 3}$$

$$2y + 3y = x - 11$$

$$3y + 11 = x - 2y$$

$$3y + 11 = x(1 - y)$$

$$x = \frac{3y + 11}{1 - y}$$