

27th August



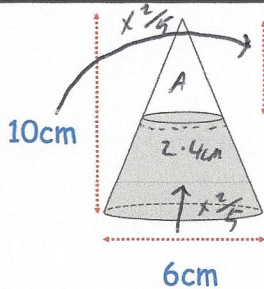
Corbettmaths

Write as a power of 2

$$\sqrt[4]{32}$$

$$\sqrt[4]{2^5}$$

$$2^{5/4}$$



whole cone:

$$\frac{1}{3} \pi \times 3^2 \times 10 = 30\pi \text{ cm}^3$$

Volume of A

$$\frac{1}{3} \pi \times 1.2^2 \times 4 = \frac{48}{25} \pi$$

Find the volume of liquid in the container

$$30\pi - \frac{48}{25} \pi = 88.216 \text{ cm}^3$$

Find the coordinates of the minimum point of the curve with equation

$$y = x^2 - 6x + 7$$

$$y = (x - 3)^2 - 9 + 7$$

$$y = (x - 3)^2 - 2$$

$$(3, -2)$$

Express in the form  $a\sqrt{7} + b$

$$\frac{\sqrt{7} + 1}{\sqrt{7} - 3} \times (\sqrt{7} + 3)$$

$$\frac{\sqrt{7} - 3}{\sqrt{7} - 3} \times (\sqrt{7} + 3)$$

$$\frac{7 + 3\sqrt{7} + \sqrt{7} + 3}{7 - 9}$$

$$\frac{10 + 4\sqrt{7}}{-2}$$

$$-5 - 2\sqrt{7}$$

$$-2\sqrt{7} - 5$$

$$f(x) = x + 90$$

$$g(x) = \cos x$$

Draw  $y = gf(x)$

