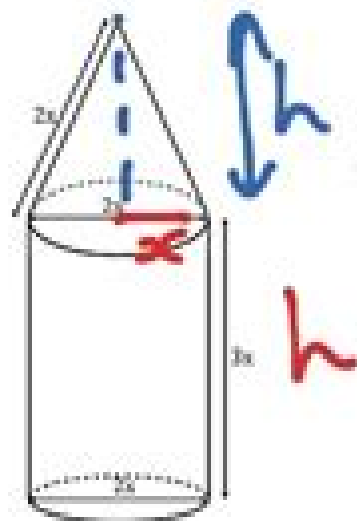


$$D = 2x$$

$$r = x$$



Not drawn accurately

$$\text{Vol Toy} = \text{Vol Cylinder} + \text{Vol Cone}$$

$$\text{Vol Cyl} = \pi r^2 \times h$$

$$\pi x x^2 \times 3x$$

$$\text{Vol Cyl} = 3\pi x^3$$

$$\text{Vol Cone} = \frac{1}{3} \pi r^2 h$$

Work out an expression in  $\text{cm}^3$ , for the total volume of the toy.  
Write your answer in the form  $ax^3$ , where  $a$  is a numerical expression.

Note: the volume of a cone is given by the formula  $V = \frac{1}{3} \pi r^2 h$

$$h = \frac{2x}{x} h$$

$$x^2 + h^2 = (2x)^2 \quad [4 \text{ marks}]$$

$$x^2 + h^2 = 4x^2$$

$$h^2 = 3x^2$$

$$h = \sqrt{3}x$$

$$a = 3 + \frac{\sqrt{3}}{3}$$

$$\frac{1}{3} \times \pi \times x^2 \times \sqrt{3}x$$

$$= \frac{\sqrt{3}}{3} \pi x^3$$

$$V = 3\pi x^3 + \frac{\sqrt{3}}{3} \pi x^3$$

$$V = \left(3 + \frac{\sqrt{3}}{3}\right) \pi x^3$$

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**ML Morrison**



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