

$$x^2 - 10x + 12 = -4$$

$$x^2 - 10x + 16 = 0$$

$$x^2 - 2x - 8x + 16 = 0$$

$$x(x-2) - 8(x-2) = 0$$

$$(x-2)(x-8) = 0$$

$$x-2=0$$

$$\underline{x=2}$$

$$x-8=0$$

$$\underline{x=8}$$

$$\begin{array}{r} 16 \\ \hline -2 \quad -8 \end{array} = -10$$

Equivalent figures .....

(2-D)

have the same area .

Equivalent solids.....

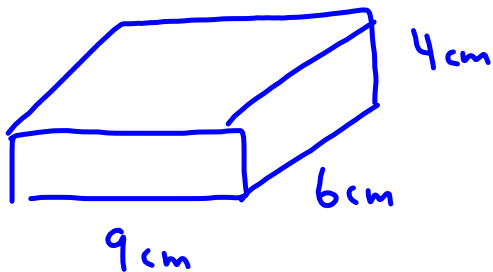
(3-D)

have the same volume .

p.114 #1-5

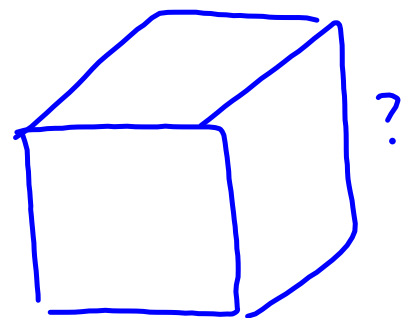
Formulas on p.108

1.



$$V = 9 \text{ cm} (6 \text{ cm}) 4 \text{ cm}$$
$$= 216 \text{ cm}^3$$

equivalent



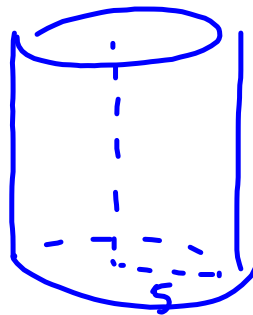
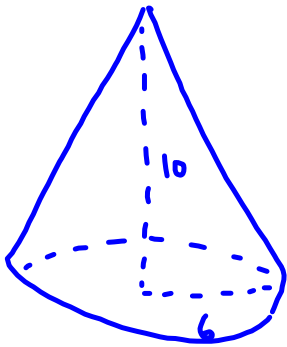
$$V = x^3$$

$$216 = x^3$$

$$\sqrt[3]{216} = x$$

$$x = 6 \text{ cm}$$

2.



$$V = A_b \cdot h \div 3$$

$$= \pi r^2 h \div 3$$

$$= \pi (6\text{cm})^2 (10\text{cm}) \div 3$$

$$= 120\pi \text{ cm}^3$$

$$= 377 \text{ cm}^3$$

$$V = A_b \cdot h$$

$$377 = \pi r^2 h$$

$$377 = \pi (5)^2 h$$

$$377 = 25\pi h$$

$$377 = 78.5 h$$

$$h = \frac{377}{78.5} = 4.8 \text{ cm}$$