SUBSTITUTION INTO FORMULAE

Example 2

If $V = \pi r^2 h$, find: (a) V when r = 3.5, h = 5Solution (a) $V = \pi \times 3.5^2 \times 5$ $= 61.25\pi$ (exact value) = 192.4 correct to one decimal place $r^2 = \frac{275}{14 \times \pi}$ $r = \sqrt{\frac{275}{14\pi}}$ (exact value) r = 2.5 correct to one decimal place