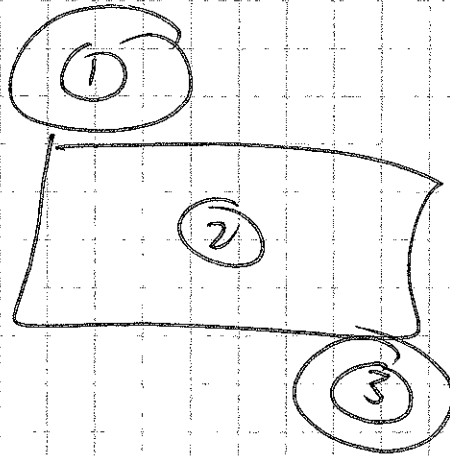
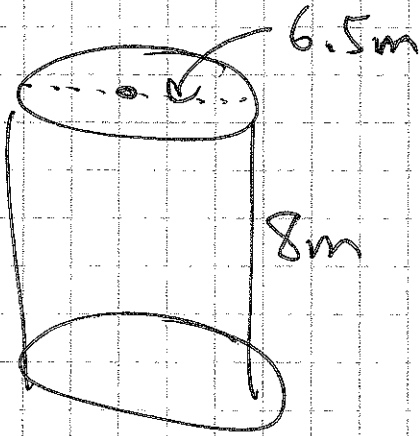


8.0

p. 426 #6c

Surface Area

9d



SA = area of 2 circles + area of rectangle.

$$SA = 2(\pi r^2) + (2\pi r)h$$

$$d = 6.5$$

$$r = \frac{6.5}{2} = 3.25$$

$$h = 8$$

$$SA = 2(\pi)(3.25)^2 + 2(\pi)(3.25)(8)$$

$$SA = 66.36614481 + 163.362818$$

$$SA = 229.7289628$$

$$SA = 229.73 \text{ m}^2$$

8.0

p. 426 #6c

Volume

9d

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

$$V = \pi (3.25)^2 (8)$$

$$V = 265.46 \text{ m}^3$$

$$\begin{aligned} d &= 6.5 \\ r &= \frac{6.5}{2} \\ &= 3.25 \end{aligned}$$