Babsin
$$\Theta$$

Treat $a = b$ as constants

$$A' = \frac{1}{2}ab\cos\Theta = 0$$

When $\Theta = \pi/a$, $A' = 0$

regardless of $a = cb!$

$$\Theta = \pi/2$$

$$V = \pi r^2 h = 1000 \Rightarrow h = \frac{1000}{\pi r^2}$$

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

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$$5A = \pi l^{2} + \frac{2000}{r}$$

$$5A' = 2\pi r - \frac{2000}{r^{2}} = 0$$

$$\frac{2\pi r^{3} - 2000}{r^{2}} = 0 \qquad r^{3} = \frac{2000}{2\pi}$$

$$r^{2} \qquad r^{2} \qquad r^{3} = \frac{3000}{r^{2}}$$

$$A'' = 2\pi + \frac{4000}{r^{3}}$$

$$r \approx 6.8278$$

5"(6.8) >0 => Minimum! r=6.888cm h & 6.888cm