4)
$$V = \pi r^{2}h + \frac{3}{3}\pi r^{3}$$

$$A = \lambda \pi rh + 3\pi r^{2}$$

$$= \lambda \pi rh + \frac{dh}{dr}\pi r^{2} + \lambda \pi r^{2} = 0$$

$$= \lambda \pi rh + \frac{dh}{dr}\pi r^{2} + \lambda \pi r^{2} = 0$$

$$= \lambda \pi rh + \frac{dh}{dr}\pi r^{2} + \lambda \pi r^{2} = 0$$

$$= \lambda \pi rh + \lambda \pi r \frac{dh}{dr} + 6\pi r$$

$$= \lambda \pi rh + \lambda \pi r \frac{dh}{dr} + 6\pi r$$

$$= \lambda \pi rh + \lambda \pi r \frac{dh}{dr} + 6\pi r$$

$$= \lambda \pi rh + \lambda \pi r^{2}$$

$$= \lambda \pi rh + \lambda \pi r^{2}$$

$$\frac{dV}{dr} = -\lambda \frac{h + r}{r}$$

$$= \lambda \pi rh + \lambda \pi r^{2}$$

$$= \lambda \pi rh + \lambda \pi rh$$

$$= \lambda \pi rh$$

$$= \lambda \pi rh + \lambda \pi rh$$

$$= \lambda \pi rh$$

$$= \lambda \pi rh + \lambda \pi rh$$

$$= \lambda \pi rh$$

h = 0