



Minimize Cost

$$V = 16\pi \text{ in}^{3}$$

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Bothom costs twice as much as sides
$$V = 2\pi r^{2} + 2\pi r \left(\frac{16}{r^{2}}\right)$$

$$C = 2\pi r^{2} + 2\pi r \left(\frac{16}{r^{2}}\right)$$

$$C = 2\pi r^{2} + 32\pi r \left(\frac{16}{r^{2}}\right)$$

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1 24 trees - 600 applied trees

Three 1/2 apples
$$x=1,1,2,3$$
 $A = (24)(60)$
 $A = (4 \text{ of apples})(4 \text{ of trees/are})$
 $A = (600 - 12 \times)(24 + \times)$
 $A = (600 - 12 \times)(24 + \times)$
 $A = 14400 + 600 \times -286 \times -12 \times^2$
 $A = 14400 + 312 \times -12 \times^2$
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