1-27

Use the formula $A = \pi r^2$ for circular areas to find the area of a circular lot of 268 ft diameter in acres (1 acre = 43,560 ft^2).

Solution.

$$A = \pi r^2 = \pi \left(\frac{268 \, ft}{2} \right)^2$$

$$= 56410 \, ft^2 \left(\frac{1 \, acre}{43560 \, ft^2} \right)$$

$$= 1.30 \, acres$$