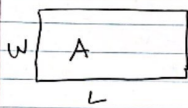


1-3-1

Issue A.

1) Find Area



$$A = L \times W$$

$$L = 216 \text{ ft}$$

$$W = 37 \text{ m}$$

$$1 \text{ m} = 3.2808 \text{ ft}$$

$$1 \text{ acre} = 43560 \text{ ft}^2$$

A) $216 \cdot \frac{37 \text{ m} \cdot 3.2808}{1 \text{ m}} = 26220.1536 \text{ ft}^2$

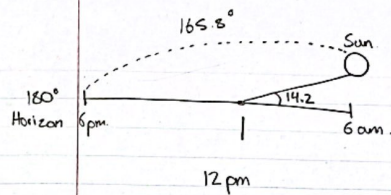
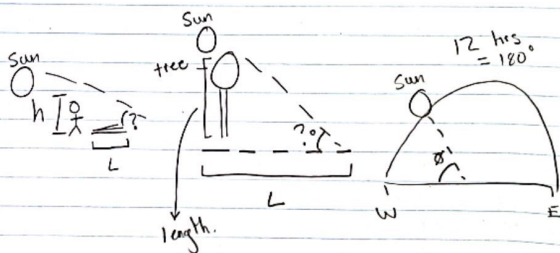
B) $\frac{26220.1536 \text{ ft}^2}{1} \times \frac{1 \text{ acre}}{43560 \text{ ft}^2} = .602 \text{ acres}$

2) Volume of the restroom in cubic inches.

$$\frac{561 \text{ ft}^3}{1} \times \frac{12 \text{ in}^3}{1 \text{ ft}^3} =$$

B) $V = \frac{abc}{1} \quad a = \frac{561 \text{ ft}^3}{bc} = 9.4 \text{ ft}$
 561 ft 9 ft 6 ft

3) A)



angle of sun traversing = 14.2

$$180 = 12 \text{ hours}$$

$$180 - 14.2 = 165.8$$

$$180 / 12 \text{ hours} = 15 \text{ deg per hour}$$

$165.8 / 15 = 11.05 \text{ hrs of sunlight left. convert to 663 minutes of sun left?}$

$$\frac{14.2 \text{ deg}}{180 \text{ deg}} \times \frac{\text{hrs}}{12 \text{ hrs}} = .447$$

$$13.8 \cdot 12 = \frac{165.6}{180} = .92$$

$$\frac{\text{degree you find}}{180^\circ} \times \frac{\text{hrs in the equation}}{\text{hrs in the equation}} = \text{answer}$$