HOMEWORK...

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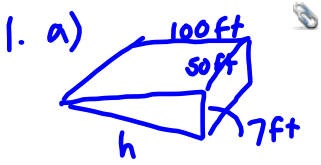
1. a)



$c^2 = a^2 + b^2$

$h^2 = 7^2 + 100^2$

$= 49 + 10000$

$= 10049$

$h = \sqrt{10049}$

$= 100.2$ ft

b) $V = A_{base} \times h$

$= \frac{bh}{2} \times w$

$= \frac{100(7)}{2} \times 50$

$= 17\,500\ ft^3$

$17\,500\ ft^3 \times \frac{7.48\ gal}{1\ ft^3}$

$= 130\,900\ gal$

c) $S.A. = \frac{2bh}{2} + lw + lw$

$= \frac{2(100)7}{2} + 7(50) + (100.2)(50)$

$= 700 + 350 + 5010$

$= 6060\ ft^2$

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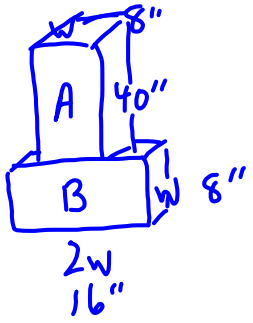
2.



4 feet = 48"

$V_A = l \times w \times h$

$= (8)(12)(40)$

$= 3840\ in^3$

$V_B = l \times w \times h$

$= (16)(12)(8)$

$= 1536\ in^3$

$V_{total} = 1536 + 3840$

$= 5376\ in^3$

$5376\ in^3 \times \left(\frac{ft}{12\ in}\right)^3 = 3.\overline{1}\ ft^3$ $\quad 1\ yd^3 = 27\ ft^3$

b)

$3.11\ ft^3 \times 25 = 77.\overline{7}\ ft^3$

$77.7\ ft^3 \times \left(\frac{yd^3}{27\ ft^3}\right) = 2.88\ yd^3$

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Homework

10.6 Worksheet 6-9

Section 6.4 page 264-266 1, 2, 5

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Attachments

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