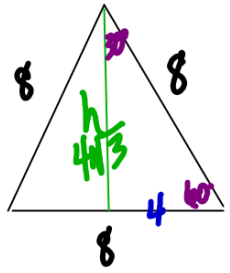
7.3

14.



$h^2 + 4^2 = 8^2$

$h^2 + 16 = 64$

$\sqrt{h^2} = \sqrt{48}$

$h = \sqrt{16 \cdot 3}$

$h = 4\sqrt{3}$

Base

$A = \frac{1}{2}bh$

$A = \frac{1}{2}(8)(4\sqrt{3})$

$A = 16\sqrt{3}$

$A = 27.7 \text{ units}^2$

B

$SA = \frac{1}{2}lp + B$

$SA = \frac{1}{2}(9)(24) + 27.7$

$SA = 108 + 27.7$

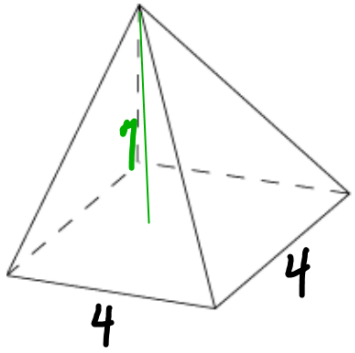
$SA = 135.7 \text{ units}^2$

$108 + 16\sqrt{3}$

7.3 Volume of a Pyramid

$V = \frac{1}{3}Bh$

B = area of base



h = 7

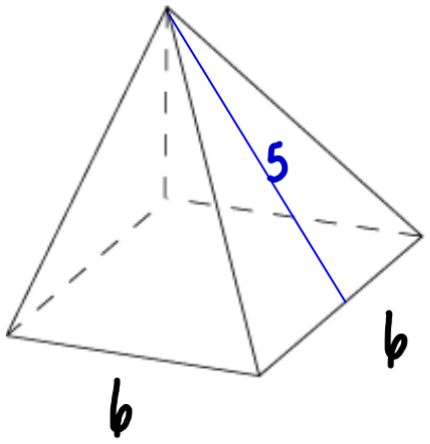
Base
Square
$A = s^2$
$A = 4^2$
$A = 16$
B

$V = \frac{1}{3}Bh$

$V = \frac{1}{3}(16)(7)$

$V = 37.3$ units^3

$37\frac{1}{3}$



$l = 5$

Square

$B = 6^2$

$B = 36$

$V = \frac{1}{3}Bh$

$V = \frac{1}{3}(36)(4)$

$V = \frac{144}{3}$

$V = 48 \text{ units}^3$

p449 17-19 all