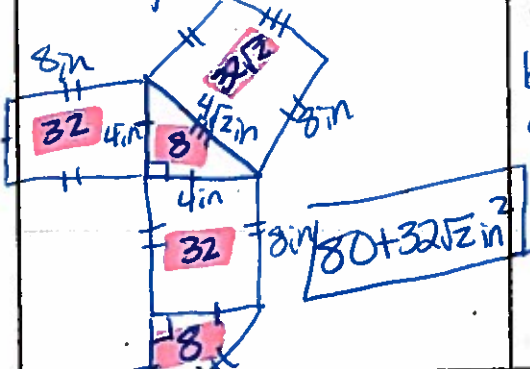
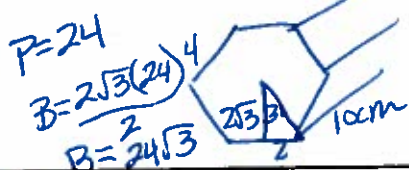


# 3 p. 569



# 4

- a) Hexagonal Prism  
 b) LA = 240 cm<sup>2</sup>  
 c) Sum of Bases = 48\sqrt{3} cm<sup>2</sup>  
 d) SA = 240 + 48\sqrt{3} cm<sup>2</sup>

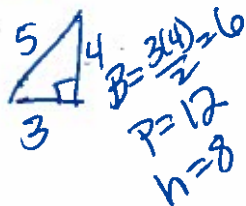


# 5

220 ft<sup>2</sup>

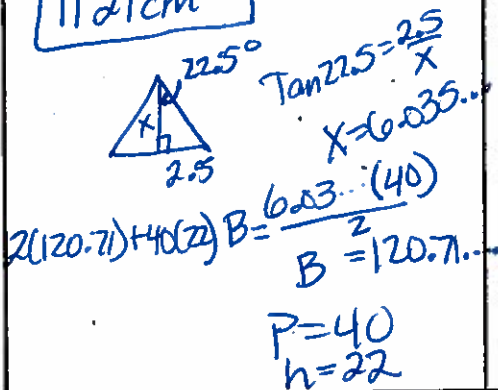
# 6

108 in<sup>2</sup>



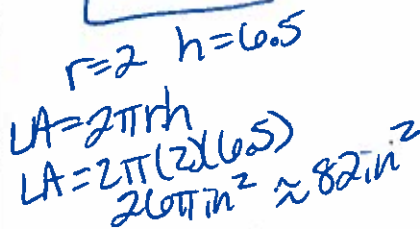
# 7

1121 cm<sup>2</sup>



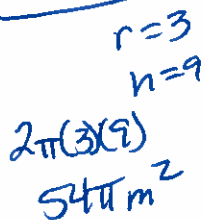
# 8

82 in<sup>2</sup>



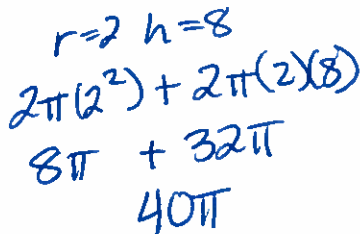
# 9

170 m<sup>2</sup>



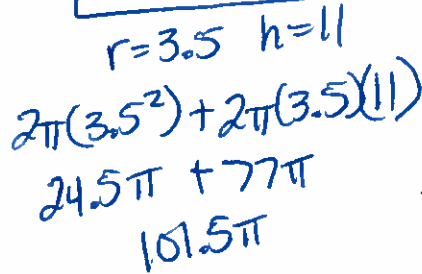
# 10

40\pi cm<sup>2</sup>



# 11

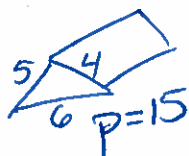
101.5\pi in<sup>2</sup>



# 17

20 cm

LA = 300  
 LA = Ph  
 300 = 15h  
 20 = h



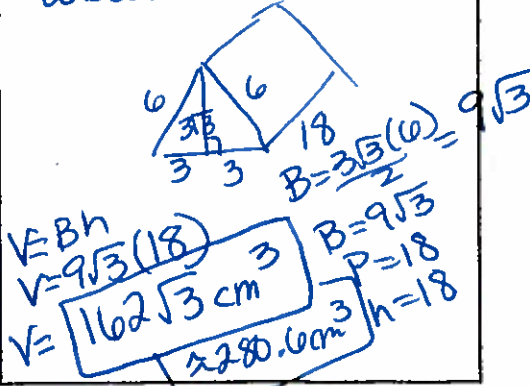
# 20

- a) r = 1.2 in h = 6 in  
 b) about 54 in<sup>2</sup>

a)  $\frac{2\pi r}{2\pi} = \frac{7.5}{2\pi}$   
 r = 1.2 in  
 b) SA = 2\pi(1.2^2) + 2\pi(1.2)(6)

# 1

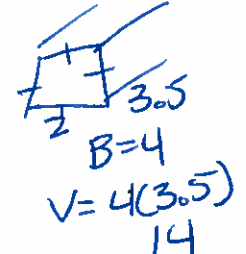
p. 582  
 about 280.6 cm<sup>3</sup>



# 2 p. 582  
 $37.5\pi m^3 ; 17.8 m^3$

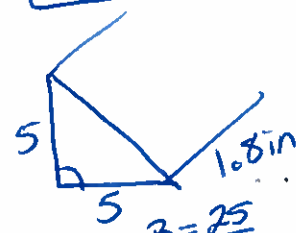
# 3  $180 m^3$   
 $B = \pi(2.5^2)$   
 $B = 6.25\pi$   
 $V = 6.25\pi(6)$   
 $37.5\pi m^3$   
 work for #2  
 #3  $V = 10(3)(6) = 180 m^3$

# 4  $14 cm^3$



$B = 4$   
 $V = 4(3.5)^2$   
 $14$

# 5  $22.5 in^3$



$B = \frac{25}{2}$   
 $V = \frac{25}{2}(1.8)$   
 $V = 22.5 in^3$

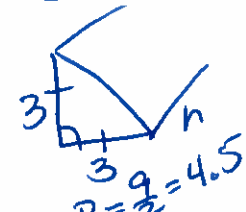
# 8  $40 cm$

$3240\pi = \pi(9^2)h$   
 $3240\pi = 81\pi h$   
 $40 = h$

# 9  $5 in$

$125 = 25h$   
 $5 = h$

# 10  $6 ft$



$B = \frac{9}{2} = 4.5$   
 $\frac{27}{4.5} = \frac{4.5h}{4.5}$   
 $6 = h$

# 11  $96 ft^3$

$B = 16$   
 $h = 6$   
 $V = 16(6)$   
 $V = 96 ft^3$

# 13  $3 cm$

$V = 135\pi$   $h = 15 cm$   
 $r = ?$   
 $135\pi = \pi r^2 h$   
 $\frac{135\pi}{15} = \frac{\pi(r^2)(15)}{15}$   
 $9 = r^2$   
 $3 = r$

# 15

$V = 164(82)(6.6)$   
 ~~$V = 88756.8 ft^3$~~   
 $88756.8(7.48)$   
 $= 663,900.864$  gallons  
 $\approx 663,901$  gallons

# \_\_\_\_\_

# \_\_\_\_\_