

**Wednesday:**

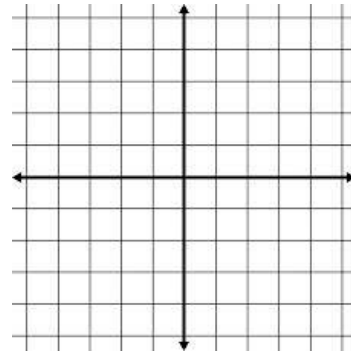
1) Graph both tables and write a rule.

x	4	2	0
y	5	3	1

Rule \_\_\_\_\_

x	-2	2	3
y	5	3	2.5

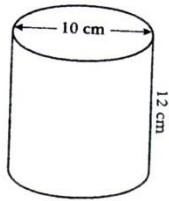
Rule \_\_\_\_\_



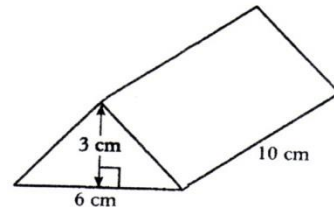
b. What is the solution? Show why algebraically:

2. Find the volume:

a.



b.



3. Find the dimensions of the square or circle. Mark the side or radius on the diagrams:

Round to the nearest tenth, if necessary.

a. Area =  $225 \text{ cm}^2$

side = \_\_\_\_\_

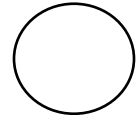
perimeter = \_\_\_\_\_



b. Area =  $121\pi \text{ in}^2$

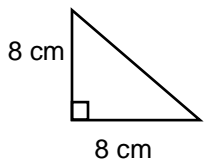
radius = \_\_\_\_\_

circumference = \_\_\_\_\_

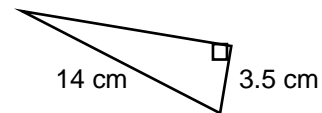


4. Find the missing sides of the right triangles: Round to the nearest tenth, if necessary.

a.



b.



**Thursday:**

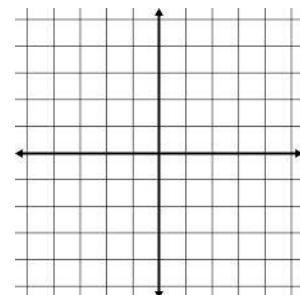
1) Find the slopes of the lines that pass through these points.

Can you find them without the graph?  $\frac{\text{vertical}}{\text{horizontal}}$

a. (0, 4) and (-3, 4)

b. (-3, 2) and (0, -3)

c. (4, 6) and (-3, 7)

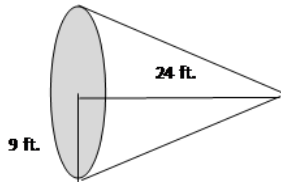


2. What is the length on an edge of a cube that has a volume of  $216 \text{ cm}^3$ ? Sketch the cube including its dimensions.

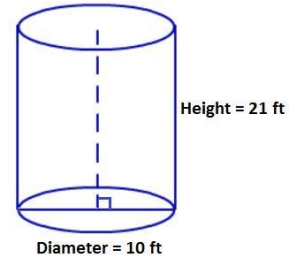
What is the surface area of this cube?

3. Find the volume:

a.



b.



4. Solve:

a.  $5(x - 8) + 14 = 3x + 24$

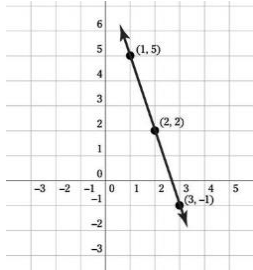
b.  $3(x + 4) = 4x + 12 - x$

Check step:

Friday:

1. Find the rule (equation) of the following linear functions:

a.



b.

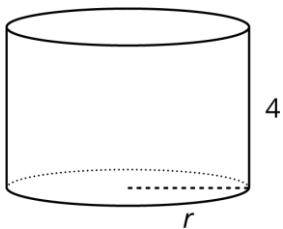
x	y
-5	4
-3	3
-1	2
1	1

2. Fill in the chart :

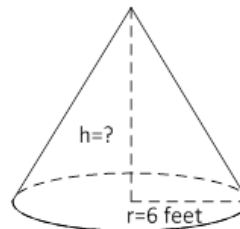
Original form	Factored form (repeated multiplication)	Simplified exponent form
$8^5 \cdot 8^4$		
$(5^2 x^3) \cdot (5 x^6)$		
$6 \cdot a^3 \cdot a \cdot 6 \cdot x^3$		
$3x^4 \cdot 5x \cdot x^2$		

3. Find the missing length:

a.



b.



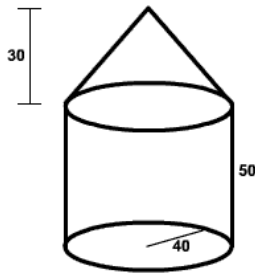
Volume =  $364 \pi \text{ cm}^2$

Volume =  $376.8 \text{ ft}^2$  ( $\pi = 3.14$ )

Thursday HW continues next page....

4. Find the Volume:

a.



**Monday:**

1. The area of a circle is  $615.44\text{cm}^2$ . Find the radius (use 3.14 for pi).

2. A rope is thrown from the top of a cliff to the ground below and stretched tightly. How high is the cliff if the rope is 65 feet long and it is 15 feet away from the base of the cliff?

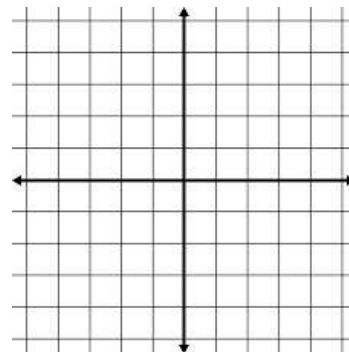
Draw a sketch and answer the question rounded to the nearest tenth of a foot.

3. Use the graph below to find the a) SLOPE and b) DISTANCE between the 2 points:

(2, 4) and (-3, -1)

slope= \_\_\_\_\_

distance = \_\_\_\_\_



4. You have a vase that is the shape of a cylinder. It is 10 inches tall and has a radius of 2 inches. You also have a vase that is the shape of a square prism. It is also 10 inches tall and has a side length of the square of 3 inches.

a. Which one will hold more water?

b. How much more water will this vase hold?

5. Find the volume:

