Name	2
Mrs.	Roumbos

Da	te	
8R	Period	

## Take Home Quiz #7

Due			
**Show	all work	where	necessary**

- 1) Write 0.64 as a fraction in reduced form.
- 2) Which of the following is an irrational number?

- A) 787

- c)  $\frac{32}{50}$

- C) 4.5102
- D)  $\sqrt{620}$

- 3) Find the value of: 2-2
- A) 1
- C) 0

- 4) Write the number 0.00000123 in scientific notation.
- A) 123
- B) 123x 106

D)  $1.23 \times 10^{-6}$ 

6) Simplify: 10x + 2 when x = 5. SHOW WORK!

- C)  $1.23 \times 10^6$

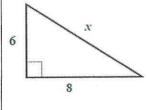
- 5) Write the following in standard form:  $2.25 \times 10^{5}$
- A) 22500
- B) 225000

- A)5
- B) 50
- C)52
- D) 60

- C) 22500000
- D) 2.25000
- 7) Which of the following is the formula for the
- volume of a cylinder?
- 8) How many solutions does the following equation have? SHOW WORK!
  - 4(x + 3) = 4x + 12

- A)  $V=2\pi r$
- B)  $V=2\pi rh$
- C)  $V = 2\pi r^2 h$
- D)  $V = \pi r^2 h$
- 9) Solve for x: SHOW WORK!

10) Solve for x: SHOW WORK! 6(x + 2) - 5 = 2x + 15

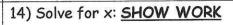


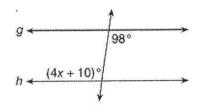
11) What volume of ice cream is contained in a
10 cm- <u>high</u> ice cream cone with a base <u>radius</u>
of 4cm? Formula: $V = \frac{1}{3}\pi r^2 h$ SHOW WORK!

12) Find the volume of a sphere with a <u>radius</u> of 7cm. Formula:  $V = \frac{4}{3}\pi r^3$  **SHOW WORK!** 

13) Can the follow	owing numbers	represent the				
lengths of the sides of a right triangle? Prove						
mathematically.	SHOW WORK	Explain your				
answer.		1991				

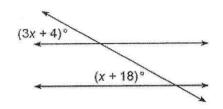
{5,4,8}





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15) Solve for x: SHOW WORK!



16) A <u>ladder</u> 12 feet long is leaning against a building. How high on the building will the ladder reach when the <u>bottom</u> of the ladder is 5 feet from the building? Round our answer to the nearest tenth. <u>Make sure to draw a diagram.</u>
Show all work!!

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