Name	
Mrs. Roumbos	

Date
8R Period

Review for 8R Midterm Part II's

22) The weights, in ounces, of different animals are shown in the table below:

Animal	Weight (ounces)
Elephant	6.23×10^3
Cat	1.28×10^{2}
Mouse	3.2×10^{-2}
Zebra	1.6 × 10 ²

Part A:

What is the combined weight of the elephant and the zebra?

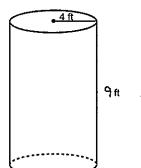
Write answer in scientific notation.

Part B:

How many times heavier than a mouse is a zebra.

Write answer in standard form.

23) Find the volume of the following cylinder. Round your answer to the nearest <u>tenth</u>.



$$V = \pi r^2 h$$

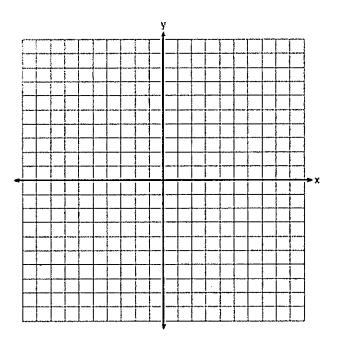
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/4		<i>10 ino</i>	TAILA	wini	SVSIDMI	11 I D		4 4 14.	X (17161	v m	7201741174111	v .snoweni	VIJIII' WIJI'K
		, , , , , , , , , , , , , , , , , , , 	10110	*******	J 7 J 1 G 1 1 1	V 1 V	944114113		~ GIIG	, 411	4001 410411	7. - 711077 WILL	7041 170111

$$4x + 2y = 6$$

y = $-3x - 1$

25) a) Graph line segment \overline{CD} with coordinates C(-5,4) and D(2,-4).

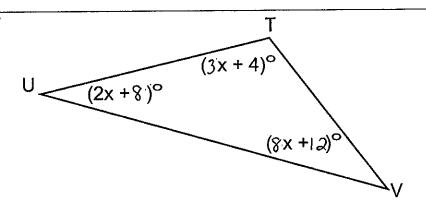
b) Find the length of \overline{CD} . To the nearest tenth



c) Between which two consecutive integers does that length lie?

26) Given the following diagram of ΔTUV

A. Solve for x

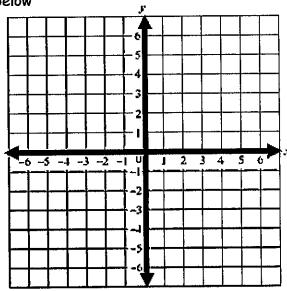


B. Solve for the m < T

27) A. Graph and label the equations on the coordinate grid below

$$y = x + 5$$

$$y = -\frac{1}{2}x + 2$$



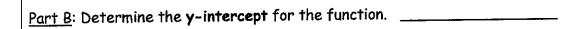
B. What is the solution to the system?

(_____,___)

28) Sally saves the same amount of money each month in her bank's savings account. The amount of money she saved after different numbers of months is shown in the following table.

Months of savings,	Total Amount saved (in \$),
×	У
2	400
4	1200
6	2000
8	2800

Part A: Determine the rate of	f change for the function.	
full W. Determine merale of	i change for the fattern	



Part C: Write the equation that represents this function in y = mx + b form.

Name_	Key	
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B W

Add Part A:

What is the combined weight of the elephant and the zebra? AMUST have ()

Write answer in scientific notation.

 $(6.23 \times 10^3) + (1.6 \times 10^2) = (6.39 \times 10^3)$

Divide Part B:

How many times heavier than a mouse is a zebra.

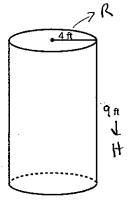
Write answer in standard form.

 $(1.6 \times 10^{2}) = (3.2 \times 10^{-2}) = (5000)$ Bigger # 15 (Bigger Expurer) must go 15

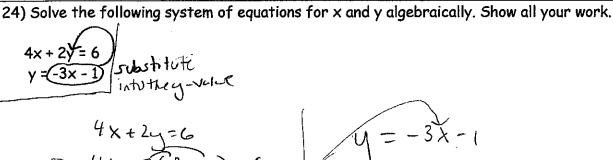
A Conput right into the calculater to V get The consules A must use () A

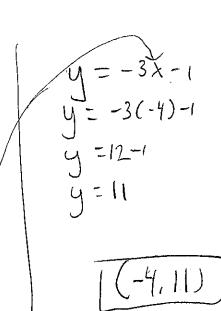
1200 (DRG) & IFLOT

23) Find the volume of the following cylinder. Round your answer to the nearest tenth.



V= TIPh DUST The TI-button! V-(TI) ~ (4)2(9) 1= 452,4f+3

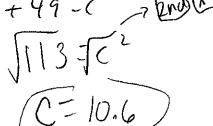




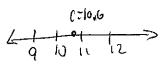
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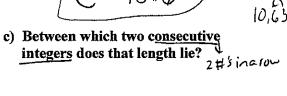
b) Find the length of \overline{CD} . To the nearest tenth

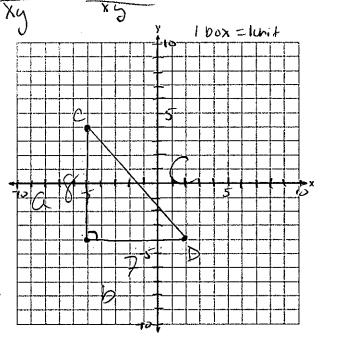
$$a^2 + b^2 = c^2$$

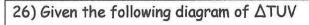






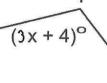






A Add upall of the angles & set = to 180 (3x + 4)0 A. Solve for x

 $U = (2x + 8)^{\circ}$



(8x +12)0

$$\frac{-24 - 24}{13}$$

$$\frac{13x = 156}{13}$$

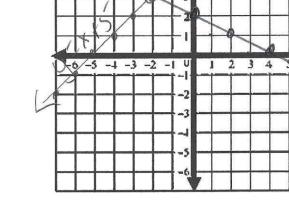
a The sum of the 3 interior angles of a triangle is 1800

B. Solve for the m < T ->plyg into the expirss in far T

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What is the solution to the system? B.

$$(-2, 3)$$

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×	Y
2	400
4	1200
6	2000
8	2800

Part A: Determine the rate of change for the function.

(z,	400)	(4,	1200)
×	9,	Xz	92

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
 $m = \frac{1200 - 400}{4 - 2}$ $m = \frac{800}{2}$ $m = 400$

Part C: Write the equation that represents this function in y = mx + b form. $y = \frac{4 - 400x - 400}{x + b}$