

Pre-Algebra
Review I

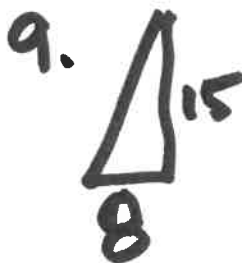
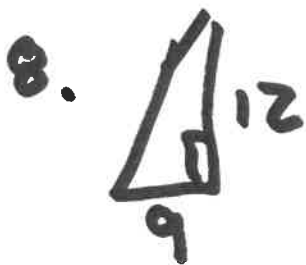
Name _____

Do you like legos?

- (A) 1. $\sqrt{16}$ 2. $\sqrt{64}$ 3. $\sqrt{289}$
4. $\sqrt{6400}$ 5. $\sqrt{900}$ 6. $\sqrt{1600}$
-

7. If a and b are the length of legs and c is the hypotenuse, what is the hypotenuse of a triangle with $a = 20$ and $b = 21$?

(B) What is the hypotenuse?



④ Is a triangle with the given side lengths a right triangle?

13. 8, 11, 18

14. 39, 65, 52

15. 65, 39, 52

⑤ Find the distance between the two points.

16. $(1, -7)$ $(7, 1)$

17. $(7, 9)$ $(-2, 3)$

18. $(-2, -3)$ $(10, -3)$

19. $(3, 9)$ $(9, 1)$

20. $(-8, -7)$ $(1, 1)$

21. $(5, 14)$ $(-16, -4)$

22. $(-19, 19.3)$ $(8, 4.3)$

23. $(-18, -20)$ $(-7.8, -7.9)$

PREALG REVIEW II

Name

Indoors vs. Outdoors

(A) Simplify.

1. $9 + 10r + 6r$ 2. $(p+2) + (7p+6)$
3. $10 + 8y + 8 + 7y$ 4. $7 - 2r + 10r - 7r$
5. $(8r+2) - (5r+1)$ 6. $6(10k-8) - 6$
-

(B) Solve.

7. $18r - 10r - 20r + 2r + 9r = 18$
8. $-2m - 4m - 17 = 1$
9. $3t - t - t = 14$
10. $14v + 16v - 30v + 5v = 45$
11. $91u + 81u - 74u = 98$
12. $-91n + 56n = 70$

5

© Solve.

13. $-9d = -8 - 7d$

14. $-8x - 4 = -9x - 8$

15. $9 + 10y = 7 + 10y + 2$

16. $3b + 10 = -5 - 2b + 8b$

17. $8 + 5f = -4f + 1 + 8f$

18. $5.8 + 5.2u = -2.3 + 6.1u$

① Number of Solutions??

19. $4v = 4v + 7$

20. $6u + 9 = 3(2u + 3)$

21. $-10 - 8w = -10w + 4$

22. $5d + 14d + 10 = 1 + 19d$

23. $-9 + 8d - 11d = -3d - 9$

24. $-17f - 13 = -8(4f + 8) + 15f$

25. $-(18f - 9) = -3(6f - 3)$

✕

PREALG REVIEW III

Name _____

Dogs vs. Cats!!

(A) Complete the tables.

1. $a = 6d$ 2. $f = s + 2$ 3. $t = 5p + 5$

d	a
1	6
2	
3	18
4	

s	f
2	4
3	
4	6
5	

p	t
2	15
4	
6	
8	

4. $f = c + 4$

c	f
1	
3	7
5	
7	

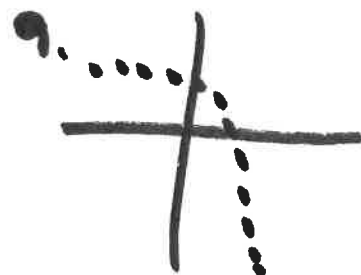
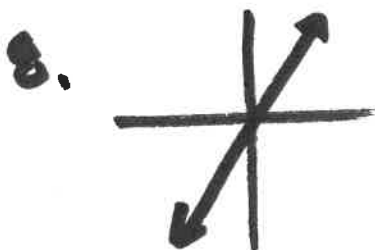
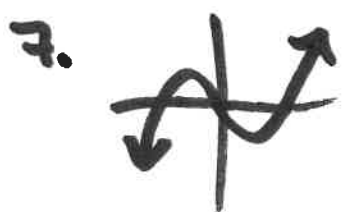
5. $y =$

x	y

6. $y =$

x	y

Ⓑ Linear or Nonlinear?



10. $y = 9x^2 + 2x - 9$

11. $y = 10x - 9$

12. $y = 9/4$

13. $y = \frac{9}{2}x^2 - 9$

14. $y = \left(\frac{5}{3}\right)^x - 6$

15. $y = \frac{x-10}{10}$

Ⓒ Linear or Nonlinear?

16.

x	y
1	2
2	8
3	14

17.

x	y
1	6
2	7
3	11

18.

x	y
9	5
13	7
17	13

19.

x	y
-2	18
3	3
8	-6

20.

x	y
-1	2
1	11
8	20
17	21

21.

x	y
-10	20
0	10
20	-10

22.

x	y
4	$9\frac{2}{3}$
7	$9\frac{1}{3}$
10	$\frac{1}{3}$

23.

x	y
$-8\frac{1}{5}$	10
$-4\frac{1}{5}$	$-\frac{1}{2}$
0	$-5\frac{1}{4}$

PreAlg REVIEW

Name _____



Solving using the graphing method.

$$1. \begin{cases} y = -\frac{1}{3}x + 2 \\ y = -\frac{2}{3}x + 4 \end{cases}$$

$$2. \begin{cases} y = -\frac{1}{5}x - 6 \\ y = \frac{3}{5}x - 2 \end{cases}$$

$$3. \begin{cases} y = x - 4 \\ y = 3 \end{cases}$$

$$4. \begin{cases} x = -20 \\ y = 75 \end{cases}$$

Solve using the substitution method.

$$5. \begin{cases} 9x - 7y = -11 \\ x = 5 \end{cases}$$

$$6. \begin{cases} y = 2 \\ -5x - 5y = 15 \end{cases}$$

$$7. \begin{cases} x - 3y = 20 \\ 7x - 8y = 10 \end{cases}$$

$$8. \begin{cases} x = y \\ y = 500 \end{cases}$$

Solve using the elimination method.

$$9. \begin{cases} -8x - 9y = -17 \\ 8x + 7y = -1 \end{cases}$$

$$10. \begin{cases} 9x + 2y = 20 \\ 9x + 6y = -12 \end{cases}$$

$$11. \begin{cases} -x + 2y = 12 \\ -2x + y = 12 \end{cases}$$

$$12. \begin{cases} \frac{1}{2}x + 2y = 4 \\ 2x + 8y = 16 \end{cases}$$

TH

Pre Algebra Review VI

Name _____

Two Best Trees?

Simplify.

1. 2^{-1} 2. 3^{-1} 3. 8^{-1} 4. 1^{-1} 5. 7^{-3} 6. $(\frac{1}{8})^{-1}$

7. $(\frac{1}{10})^{-1}$ 8. $(\frac{1}{6})^{-1}$ 9. $(\frac{1}{3})^{-2}$ 10. $(\frac{1}{7})^{-3}$

11. $(\frac{1}{10})^{-3}$ 12. $(\frac{1}{5})^{-2}$ 13. $(\frac{1}{3})^{-3}$

write with one base.

14. $477^6 \cdot 477^6$ 15. $300^4 \cdot 300^{44}$ 16. $942^1 \cdot 942^4$

17. $513^7 \cdot 513^9 \cdot 513^7$ 18. $491^{68} \cdot 491^{76} \cdot 491^6$

19. $897^{12} \cdot 897^{-97} \cdot 897^{65}$ 20. $1000^4 \cdot 1000$

write with one base.

21. $\frac{657^3}{657^3}$

22. $\frac{766^3}{766^3}$

23. $\frac{516^5}{516^8}$

$$24. \frac{213^5}{213^6}$$

$$25. \frac{461^9}{461^6}$$

$$26. \frac{446^8}{446^{21}}$$



write with one base.

$$27. \frac{645^3}{645^9}$$

$$28. 175^3 \cdot 175^6$$

$$29. \frac{162^6}{162^2}$$

$$30. \frac{296^1}{296^{26} \cdot 296^3}$$

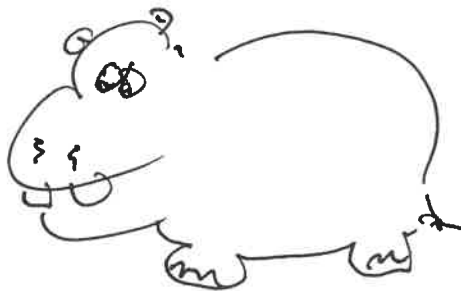
$$31. \frac{353^{73}}{353^{76} \cdot 353^5}$$

$$32. \frac{156^{17}}{156^4 \cdot 156^{66}}$$

$$33. 387^1 \cdot 387^8 \cdot 387^5$$

$$34. 10^3 \cdot 10^7 \cdot 10^{-6} \cdot 10^1 \cdot 10^{-13} \cdot 10^{26} \cdot 10^{-4}$$

$$35. \frac{10^6 \cdot 10^3 \cdot 10^{-5} \cdot 10^4 \cdot 10^{-9} \cdot 10^{-2}}{10^5 \cdot 10^{11} \cdot 10^7 \cdot 10^{-20} \cdot 10^6 \cdot 10^{-3}}$$



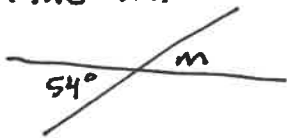
PreAlg Review 7 Name _____

Three best treats associated with a particular holiday?

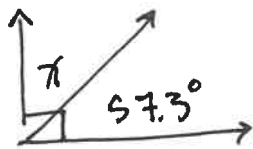
1. Supplementary angle to 62° .

2. Complementary angle to 7° .

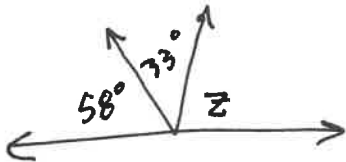
3. Find m .



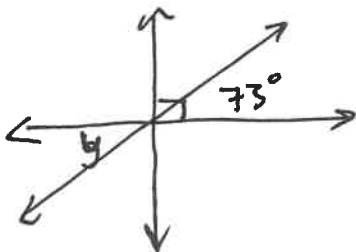
4. Find x .



5. Find z .

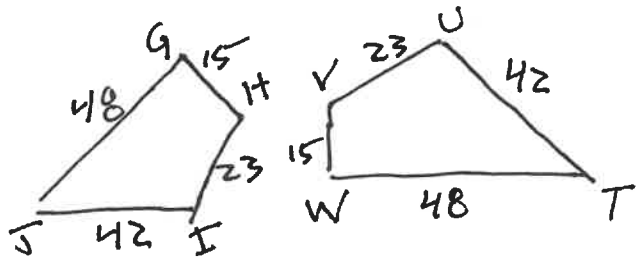


6. Find y .



7. The measure of what angle is nine times the measure of its supplementary angle?

8. Circle all true statements.



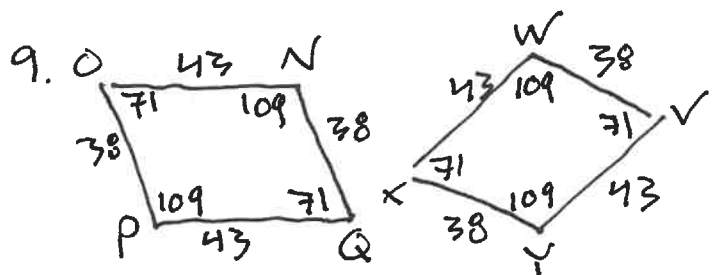
$\overline{JI} \cong \overline{VW}$

$\angle H \cong \angle T$

$\angle J \cong \angle T$

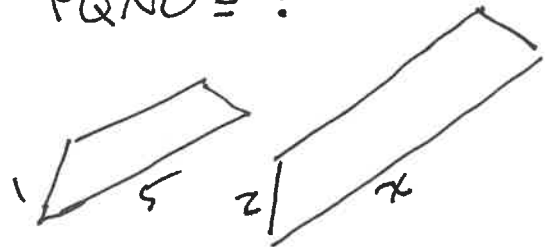
$\angle J \cong \angle T$

9. Find z .



$PQNO \cong ?$

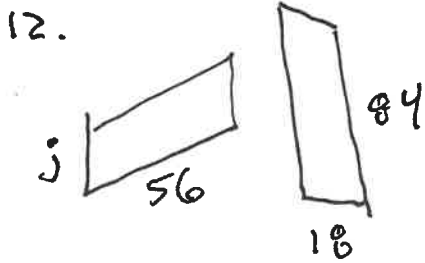
10.



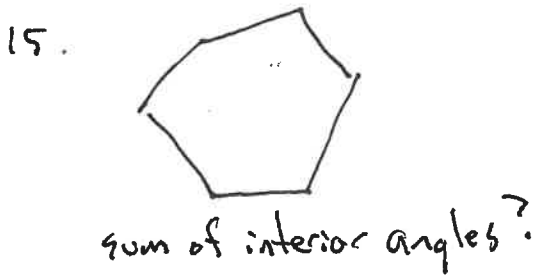
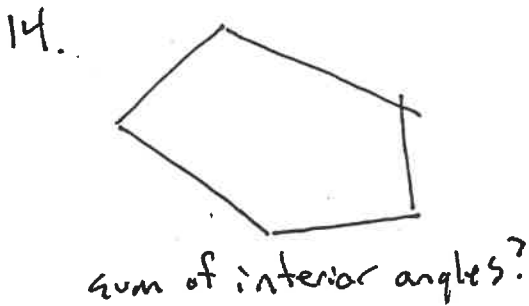
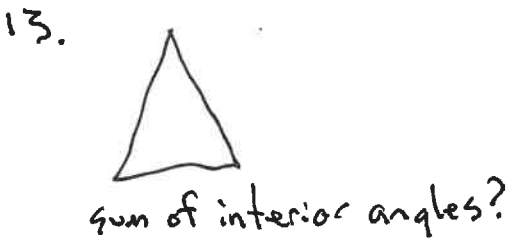
If similar, find x .



Given similarity, find x .



Given similarity, find j .



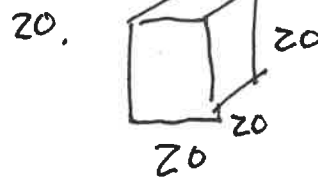
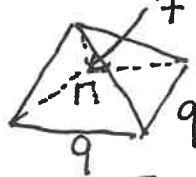
16. A pentagon has sides 135, 105, 140, 90 and d .
Find d .

17. Each angle in a regular hexagon?

18. Volume?

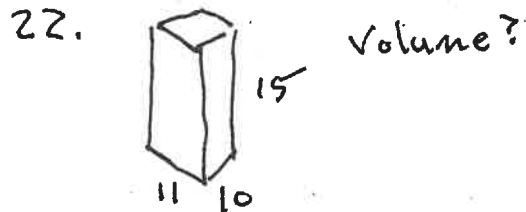
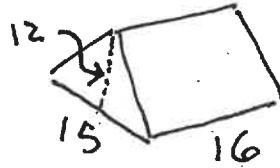


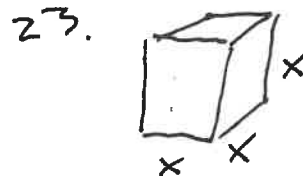
19. Volume?



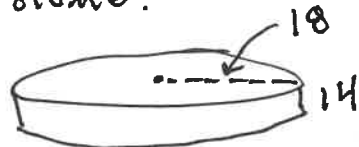
Volume?

21. Volume?



23.  If volume is 1481,544, find x .

24. Volume?



24. Volume?

