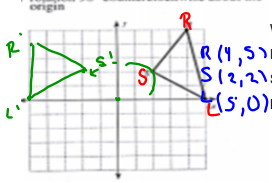
August 13, 2018

$(x,y) \rightarrow (-y,x)$

rotation 90° counterclockwise about the origin



Where are the points

R (4,5) R' (-5, 4)
S (2,2) S' (-2, 2)
L (5,0) L' (-0, 5)

Aug 13-7:39 AM

Even, Odd, or Neither

$f(x) = x^2 + 6$ $f(x) = x^3 - 8x$ $f(x) = x^4 + 3x^2$

$f(-x) = f(x)$ Even

$f(-x) = -f(x)$ Odd

$f(-x) \neq -f(x)$ Neither

Graph is symmetric with respect to the y-axis	Graph has origin symmetry	Graph is not symmetric with respect to the y-axis and does not have origin symmetry

Aug 13-8:02 AM

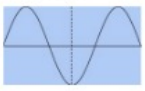
Compare

$f(x) = 4x^2 - 7x^0$; Even Function

$g(x) = 5x^1 - 2x^0$; Odd Function

even odd even

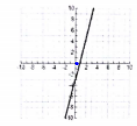
$h(x) = 7x^2 + 5x^1 + 3x^0$; Neither

Even	Odd	Neither
		
Graph is symmetric with respect to the y-axis	Graph has origin symmetry (if we rotate half the graph about the origin, it fits perfectly over the other half	Graph is not symmetric with respect to the y-axis and does not have origin symmetry

Aug 13-8:03 AM

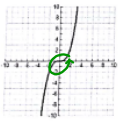
Determine whether the following functions are even, odd, or neither.

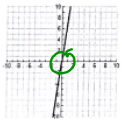
Neither even even

1. $f(x) = 4x^1 - 3x^0$ 

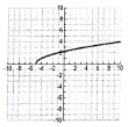
2. $f(x) = |x| + 1$ 

3. $f(x) = -x^2 - 4x^0$ 

4. $f(x) = \frac{1}{3}x^3$ odd 

5. $f(x) = 7x^1$ odd 

Neither

6. $f(x) = \sqrt{x+5}$ 

Aug 13-7:48 AM

7. $f(x) = 3x^2$ even

8. $f(x) = x^2 - 2x^0$ NEITHER

9. $f(x) = 3x^1 + 4x^0$ NEITHER

10. $f(x) = x^2 - 5x^0$ even

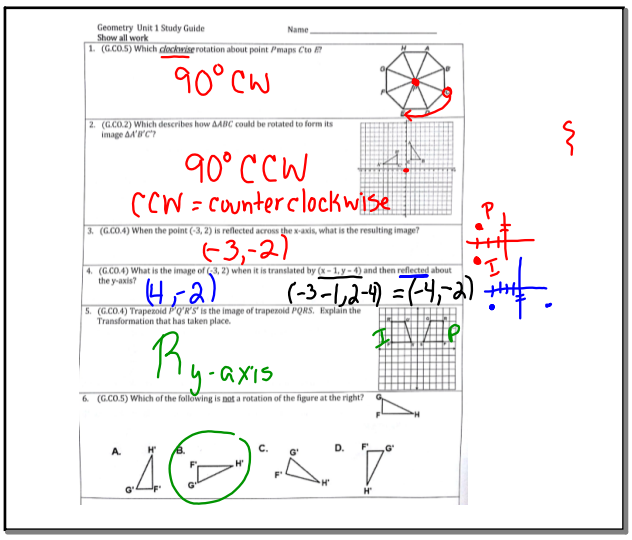
11. $f(x) = 10x^1 + 5x^0$ NEITHER

12. ~~$f(x) = 2(x+1)^3$~~

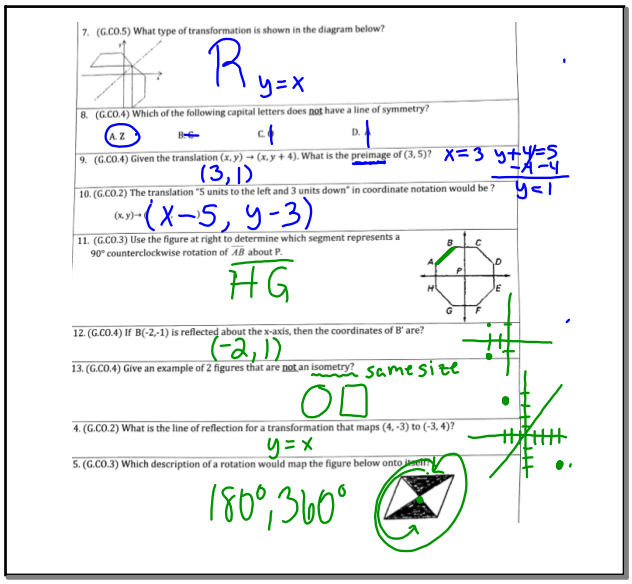
Aug 13-7:48 AM

Key: 1) N 2) N 3) E 4) O 5) O 6) N 7) E 8) N 9) N
10) E 11) N 12) N

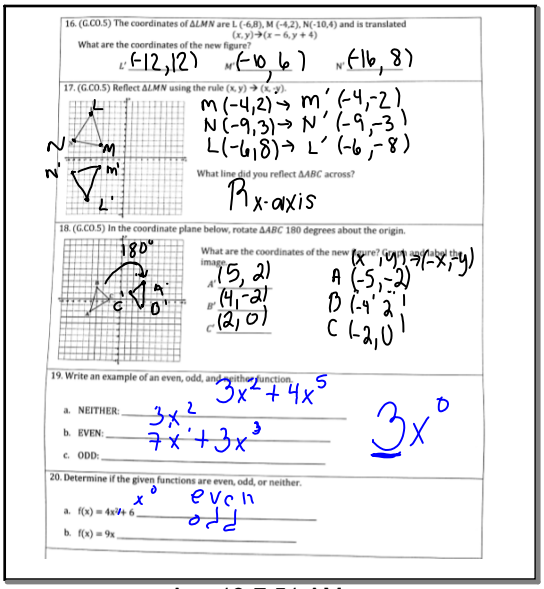
Aug 13-7:48 AM


Geometry Unit 1 Study Guide Name _____
Show all work
1. (G.CO.5) Which clockwise rotation about point P maps C to B? 90° CW
2. (G.CO.2) Which describes how ΔABC could be rotated to form its image ΔA'B'C'? 90° CCW
CCW = counterclockwise
3. (G.CO.4) When the point (-3, 2) is reflected across the x-axis, what is the resulting image? (-3,-2)
4. (G.CO.4) What is the image of (-3, 2) when it is translated by (x - 1, y - 4) and then reflected about the y-axis? (4,-2) (-3-1, 2-4) = (-4,-2)
5. (G.CO.4) Trapezoid P'Q'R'S' is the image of trapezoid PQRS. Explain the Transformation that has taken place. R y-axis
6. (G.CO.5) Which of the following is not a rotation of the figure at the right? A. B. C. D.

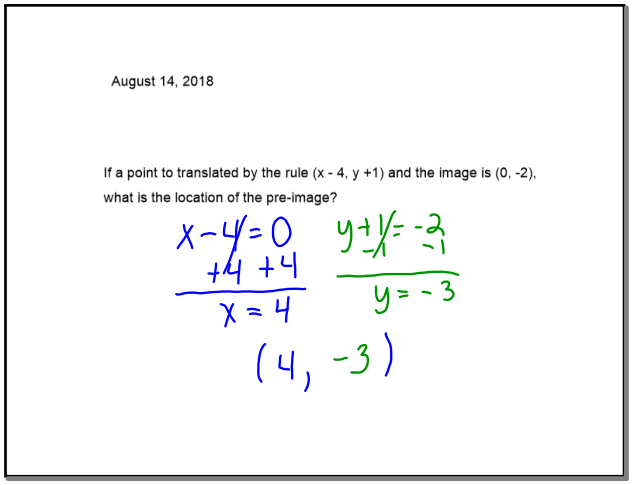
Aug 13-7:50 AM


7. (G.CO.5) What type of transformation is shown in the diagram below? R y=x
8. (G.CO.4) Which of the following capital letters does not have a line of symmetry? A. Z B. G C. I D. I
9. (G.CO.4) Given the translation (x, y) → (x, y + 4). What is the preimage of (3, 5)? (3,1) x=3 y+4=5 -4 -4 y=1
10. (G.CO.2) The translation "5 units to the left and 3 units down" in coordinate notation would be ? (x,y)→ (x-5, y-3)
11. (G.CO.3) Use the figure at right to determine which segment represents a 90° counterclockwise rotation of AB about P. HG
12. (G.CO.4) If B(-2,-1) is reflected about the x-axis, then the coordinates of B' are? (-2,1)
13. (G.CO.4) Give an example of 2 figures that are not an isometry? same size
4. (G.CO.2) What is the line of reflection for a transformation that maps (4, -3) to (-3, 4)? y=x
5. (G.CO.3) Which description of a rotation would map the figure below onto itself? 180°, 360°

Aug 13-7:51 AM


16. (G.CO.5) The coordinates of ΔLMN are L (-6,8), M (-4,2), N(-10,4) and is translated (x, y)→(x - 6, y + 4)
What are the coordinates of the new figure? L' (-12,12) M' (-10, 6) N' (-16, 8)
17. (G.CO.5) Reflect ΔLMN using the rule (x, y) → (x, y). M (-4,2)→ M' (-4,-2) N (-9,3)→ N' (-9,-3) L (-6,8)→ L' (-6,-8)
What line did you reflect ΔABC across? R x-axis
18. (G.CO.5) In the coordinate plane below, rotate ΔABC 180 degrees about the origin. 180°
What are the coordinates of the new figure? (x, y)→(-x,-y)
A' (5, 2) A (-5,-2)
B' (4,-2) B (-4, 2)
C' (2, 0) C (-2, 0)
19. Write an example of an even, odd, and neither function.
a. NEITHER: 3x² + 4x⁵
b. EVEN: 7x⁴ + 3x³
c. ODD: 3x⁰
20. Determine if the given functions are even, odd, or neither.
a. f(x) = 4x⁴ + 6 even
b. f(x) = 9x odd

Aug 13-7:51 AM


August 14, 2018

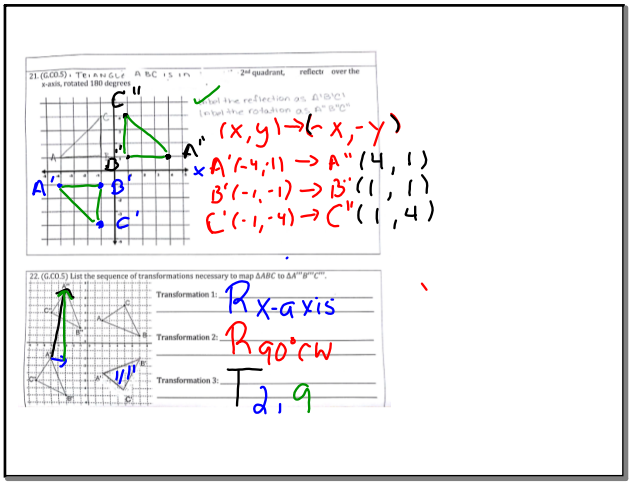
If a point to translated by the rule (x - 4, y +1) and the image is (0, -2), what is the location of the pre-image?

x - 4 = 0 +4 +4 x = 4

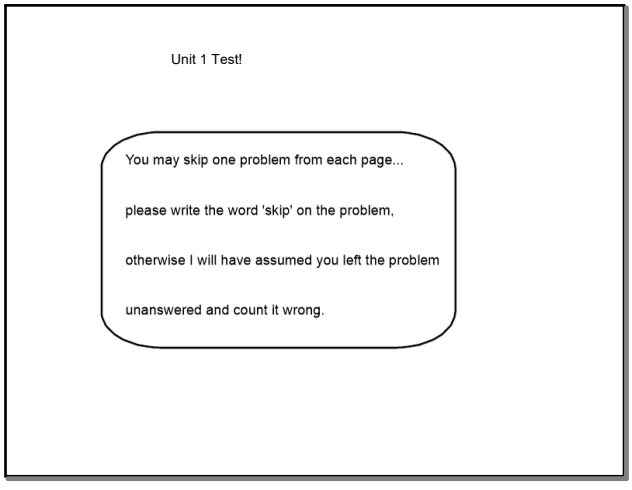
y + 1 = -2 -1 -1 y = -3

(4, -3)

Aug 13-1:50 PM


21. (G.CO.5) Triangle ABC is in 2nd quadrant, reflect over the x-axis, rotated 180 degrees. Write the reflection as ΔA'B'C' Write the rotation as ΔA''B''C''
(x, y)→(-x, -y)
A'(-4, 11) → A''(4, 1)
B'(-1, -1) → B''(1, 1)
C'(-1, -4) → C''(1, 4)
22. (G.CO.5) List the sequence of transformations necessary to map ΔABC to ΔA'''B'''C'''.
Transformation 1: R x-axis
Transformation 2: R 90°CW
Transformation 3: T 2, 9

Aug 13-7:51 AM


Unit 1 Test!

You may skip one problem from each page...

please write the word 'skip' on the problem,

otherwise I will have assumed you left the problem

unanswered and count it wrong.

Aug 13-7:51 AM

Classify each angle as acute, obtuse, right, or straight.

1) 

2) 

3) 

4) 

5) 

6) 

Aug 13-7:52 AM

Name each angle in four ways.

7) 

8) 

9) 

10) 

Aug 13-7:56 AM

Use the angle addition postule to find the missing measurements.

11) $m\angle HIJ = 152°$ and $m\angle HIF = 60°$. Find $m\angle FIJ$.

12) $m\angle QRS = 135°$ and $m\angle QRH = 74°$. Find $m\angle HRS$.

13) Find $m\angle CDK$ if $m\angle KDE = 160°$ and $m\angle CDE = 180°$.

14) $m\angle JKL = 107°$ and $m\angle MKL = 85°$. Find $m\angle JKM$.

Aug 13-7:57 AM

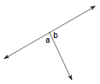
15) $m\angle FGZ = 52°$ and $m\angle ZGH = 94°$. Find $m\angle FGH$.

16) Find $m\angle JIH$ if $m\angle JIG = 70°$ and $m\angle GIH = 52°$.

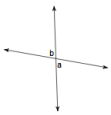
Aug 13-7:57 AM

Name the relationship: complementary, linear pair, vertical, or adjacent.

17) 

18) 

19) 

20) 

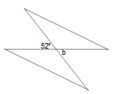
21) 

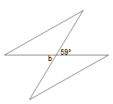
22) 

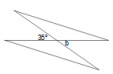
Aug 13-7:57 AM

Using vertical pairs, find the measure of angle b.

23) 

24) 

25) 

26) 

27) 

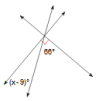
28) 

Aug 13-7:58 AM

Using complementary angles, find the value of x.

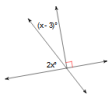
29)

30)



-3-

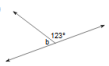
31)



Aug 13-7:58 AM

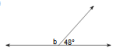
Using linear pairs, find the measure of angle b.

32)



33)

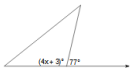
34)



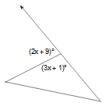
Aug 13-7:59 AM

Find the value of x.

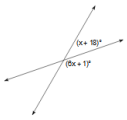
35)



36)



37)



Aug 13-7:59 AM