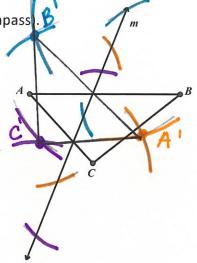
	NAME: Key 2017	DATE:
	GEOMETRY-Quarterly 1 Review	PERIOD:
1)	As shown in the diagram below, lines $m$ and $n$ are cut by transversal $p$ . If $m\angle 1 = 4x + 14$ and $m\angle 2 = 8x + 10$ , lines $m$ and $n$ are parallel when $x$ equal to $1$ and $1$ and $1$ are $1$ are $1$ and $1$ are $1$ are $1$ and $1$ are $1$ are $1$ and $1$ are $1$ a	uals Suplementary
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sur
21	Which of the following is a not a RIGID MOTION of the pre-image?	13
-,	Pre-Image A) B) not congrue	ent   O
		Soot sma
3)	Translation $T$ maps point $(2, 6)$ to point $(4, -1)$ . What is the image of p	point $(-1,3)$ under translation $T$ ?
4)	Figure out RULE $\Rightarrow$ ( $x+2$ , $y-7$ ) apply What is the angle of rotational symmetry for a regular octagon?	the rule > (1,-4)
	a) 18° 360 360 - 11°	-0 /
	b) 36° #sides	5° (or any multiple of 40
	c) 45°	
ГΛ	d) $72^{\circ}$	2
5)	AB is reflected to create image $A'B'$ . Which statement is always true?  Paths NOT = Preimage I mage  A) A'A = B'B  B) AB = A'B'  Preimage I mage  A'B' A'B'	Paths I BB'
6)	Which of the following is NOT a RIGID MOTION?	nt ·
	A) Reflection B) Dilation C) Rotation	D) Translation
7)	A teacher finds a paper on the ground in the classroom. When she looks at i geometry class because it has a construction on it. Which of the following cothis student's work?	
	$\sqrt{A}$ ) The midpoint of $\overline{AB}$ B) The perpendicular bisector of $\overline{AB}$	Xc midpoint
	$\sqrt{C}$ ) A perpendicular line to $AB$ $(D)$ the angle bisector of $\angle CAB$	A B
8)	Which diagram shows the construction of a 45° angle?	*
į	A) (C) *	,
	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	L construction→90°
	B) /	then
		then  * bisector -> 45

16. Perform the following constructions (using a straight-edge and a compass).

 $r_m(\Delta ABC)$ 

make 2 arcs on m from "A" (center pt. A) make "x" from those two arcs REPEAT FOR B and C!



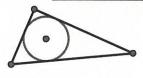
around outside

- 17. Determine whether the relationships is INSCRIBED or CIRCUMSCRIBED.
- b) The hexagon is <u>Circumscribe</u> c) The circle is <u>inscribed</u>









add sub.

28. Given a translation rule, determine the missing point.

$$A'(-2, 2)$$

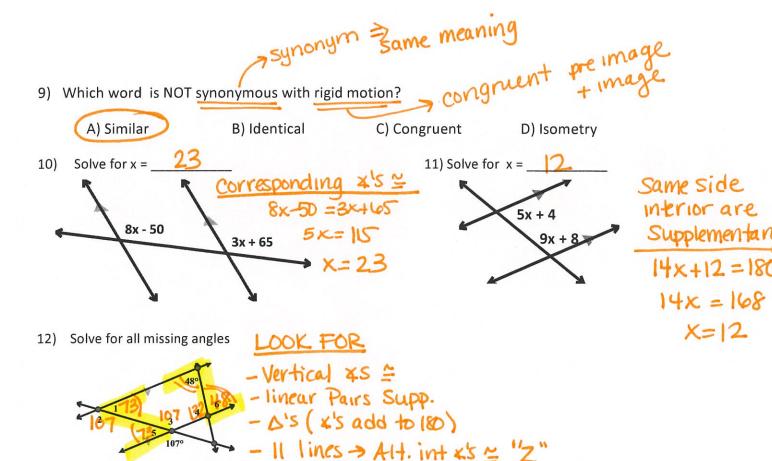
b) T 
$$(x,y)$$
 ----->  $(x - 8, y + 1)$ 

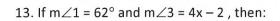
$$A'(-3, 2)$$

$$A(-1, -5)$$

d) T 
$$(x,y)$$
 ----- >  $(x, y - 2)$  A  $(3,-4)$ 

$$A'(3, -6)$$

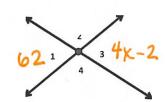




A) 
$$x = 15$$

C) 
$$x = 31$$

D) 
$$x = 62$$

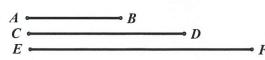


vertical angles = 
$$62 = 4x - 2$$
  
 $64 = 4x$ 

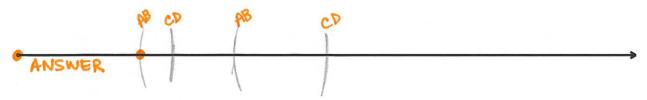
## 14. How many lines of symmetry does the flower have?

- A) 1 line of symmetry
- B) 3 lines of symmetry
- C)6 lines of symmetry
- D) 9 lines of symmetry



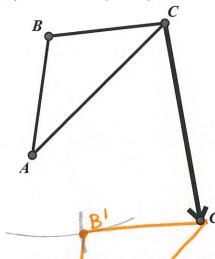


## 15. On the ray below construct exactly the length 2 CD – 2AB

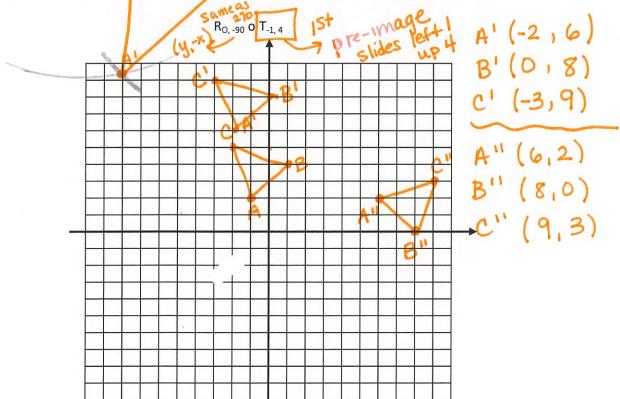


measure + mark CD TWICE where and mark AB TWICE (backwards)

19. Use a compass and straight edge to construct the following translation.



- -measure vector
- mark length from all vertices (Calreadi done)
- measure from initial pt to pre-image pt -slide needle down vector
- make "x"
- 20. Perform the following composition on  $\triangle ABC$  where A(-1,2) B (1,4) C(-2,5)



21. Determine the name of the point that meets the given conditions.

a) 
$$r_n(A) = \underline{B}$$

b) 
$$r_r(C) = A$$

c) 
$$r_s(D) =$$

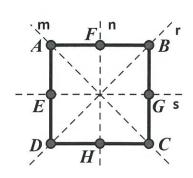
d) 
$$r_m( ) = B$$

e) 
$$r_n(D) =$$

$$r_m(E) = \underline{\qquad}$$

g) 
$$r_m(G) =$$

h) 
$$r_s( \vdash ) = H$$



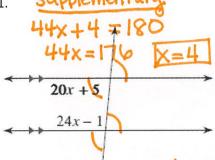
Name:	
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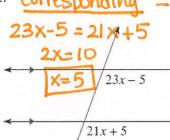
Quarterly #1 Review #2

Geometry CC

1.

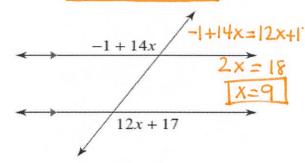


Corresponding



3.

alternate exterior



4. A Translation moves A (-2, 3) to A'(1, -1). What are the coordinates of the image of the point (4, -2) under

the same translation?

6. Which of the following properties is not preserved

5. What are the coordinates of point A', the image of point A(-4,1) after the composite transformation  $R_{90}$ ,  $r_{y=x}$ where the origin is the center of rotation?

7. Which transformation does *not* preserve orientation?

Flipped! under a line reflection?

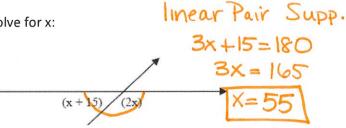
- (1) translation
- (3) rotation

- Distance
- b. Orientation
- Parallelism
- d. Angle measure
- (2) dilation
- (4) line reflection

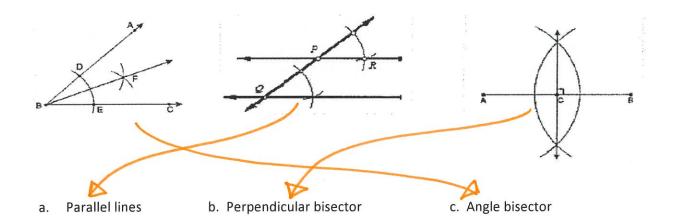
8. What is the angle of rotational symmetry when the for a regular pentagon?

to-f sides

9. Solve for x:

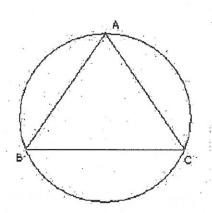


10. Match the construction with the correct geometric term:



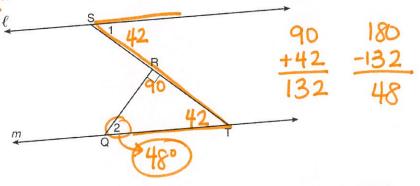
11. The Circle is CIrcumscribed (Inscribed or Circumscribed)

The Triangle is \_\_\_\_\_\_(Inscribed or Circumscribed)



12. In the diagram  $\ell \parallel m$  and  $\overline{QR} \perp \overline{ST}$  at R.

If the m<1 = 42° find '



13. What are the coordinates of A (3, -2) under a rotation of 90° centered about the origin?

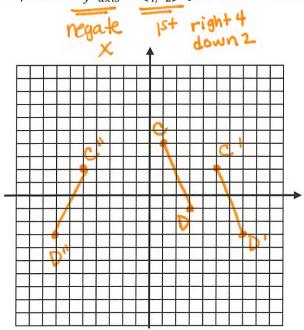


14. What are the coordinates of B(-2, 4) under a rotation of -90° centered about the origin?

same as 270 (y,-x)

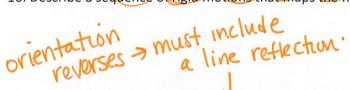


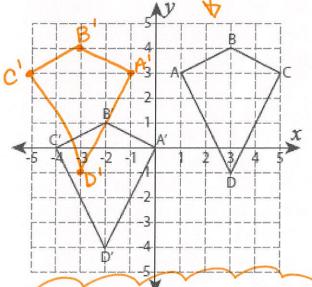
15. Given  $\overline{CD}$  with coordinates C(1,4) and D (3, -1) State the coordinates of  $\overline{C''D''}$ , the image of  $\overline{CD}$  under the composition  $r_{y-axis} \circ T_{<4,-2>}$  [The use of the accompanying grid is optional.]



C'(5,2) C''(-5,2) D''(7,-3)

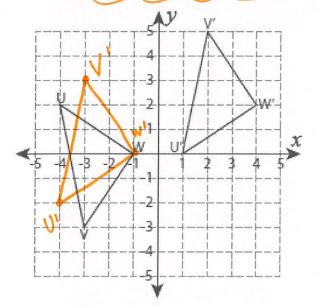
16. Describe a sequence of rigid motions that maps the figures onto one another.





reflection over y-axis then

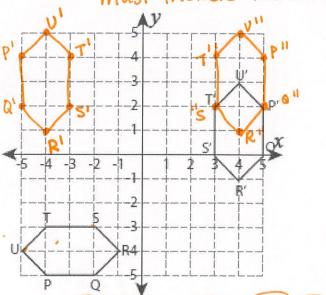
Translation Right 1, down 3,



orientation reverses -> line reflection

reflection over x-axis THEN Translation BRIGHT, 2UP

orientation reverses must include line reflect



Rotation of -90° about origin then

reflection over y-axis

then

Translation down 2