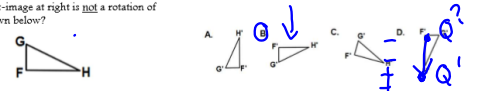
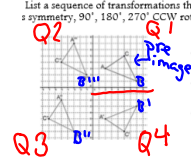


January 14, 2019, Monday
Highly missed on the unit 1 test

1 Which post-image at right is not a rotation of $\triangle FGH$ shown below?


2 Given the translation $(x,y) \rightarrow (x,y-2)$, what is the pre-image of $Q(3,5)$?
 A. $Q(5,7)$ B. $Q(3,7)$ C. $Q(3,3)$ D. $Q(5,3)$
 Handwritten: $(3,5) = (x, y-2) \rightarrow 3 = x$
 $5 = y - 2 \rightarrow y = 7$

3 List a sequence of transformations that will map $\triangle ABC$ clockwise to $\triangle A''B''C''$. (Hint: x-axis symmetry, y-axis symmetry, 90° , 180° , 270° CCW rotation, or translation)

 Quadrant 1 to Quadrant 4: Reflection
 Quadrant 4 to Quadrant 3: Rotation
 Quadrant 3 to Quadrant 2: Translation

Jan 10-11:52 AM

Define the following angle types & include a picture:
 acute
 obtuse
 right
 straight
 complementary
 supplementary
 vertical
 adjacent
 linear pair

Jan 10-1:05 PM

mrscolelovesmath.weebly.com

Unit 2 - Similarity, Congruence, & Proofs

Geogebra, angle addition postulate
 Geogebra, vertical angle, anders84
 Geogebra, complementary angles, Brenzezeki
 Geogebra, supplementary angles, raskins

Write what you discover from each file? (Please write this down 1-2 sentences)

Jan 10-2:42 PM





Geometry Unit 2 Classify, Name, < Addition, Comp & Supplementary <s, Linear Pairs
 Classify each angle as acute, obtuse, right, or straight.

1) 2) 3) 4) 5) 6) 7) 8) 9) 10)

Name each angle in four ways.

Use the angle addition postulate to find the missing measurements.
 11) $m\angle HJL = 152^\circ$ and $m\angle HJF = 60^\circ$. Find $m\angle FJL$.
 12) $m\angle QRS = 135^\circ$ and $m\angle QRH = 74^\circ$. Find $m\angle HRS$.

Jan 10-12:13 PM

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

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

 15) $m\angle PGL = 52^\circ$ and $m\angle ZGH = 94^\circ$. Find $m\angle PGH$.

 16) Find $m\angle HJI$ if $m\angle JIG = 70^\circ$ and $m\angle GHI = 52^\circ$.


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

17) 18) 19) 20) 21) 22)

Jan 10-12:50 PM

Using vertical pairs, find the measure of angle b.

23) 24) 25) 26) 27) 28)

Using complementary angles, find the value of x.

29) 30)

Jan 10-12:50 PM

31)

Using linear pairs, find the measure of angle h.

32)

33)

34)

Find the value of x.

35)

36)

37)

Jan 10-12:50 PM

Complementary Angles: Find the measure of angle h.

38)

39)

40)

41)

Supplementary Angles: Find the measure of angle h.

42)

43)

44)

45)

Jan 10-12:50 PM

January 15, 2019, Tuesday

Sketch a complementary, supplementary, vertical, linear pairs angle.

Jan 10-12:14 PM

Geometry ID: 1
 Name: _____ Date: _____ Period: _____
 Angles: Complementary, Supplementary, & Vertical
 Name the relationship: complementary, linear pair, vertical, or adjacent.

1)

2)

3)

4)

5)

6)

7)

8)

Find the measure of angle h.

9)

10)

Jan 10-12:16 PM

11)

Find the value of x.

12)

13)

14)

Find the measure of angle h.

15)

16)

17)

18)

Jan 10-12:16 PM

Find the value of x.

19)

20)

Find the measure of angle h.

21)

22)

23)

24)



Find the value of x.

25)



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Jan 10-12:16 PM



Geometry Group Work Name _____ ID: 1
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 Angles: Complementary, Supplementary, & Vertical Date _____ Period _____
 Name the relationship: complementary, linear pair, vertical, or adjacent.



1)  2) 

Find the measure of angle b.

3)  4) 

5)  6) 



7)  8) 



9)  10) 



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Jan 10-12:17 PM

Find the value of x.

11)  12) 

13)  14) 

15)  16) 



17)  18) 

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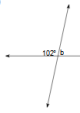
Jan 10-12:18 PM

January 16, 2019, Wednesday


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

1)  2) 

2) Find the measure of angle b.

3) 

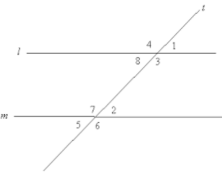
3) Find the value of x.

4) 

Jan 10-12:16 PM

Unit 2 - Similarity, Congruence, and Proofs Name _____
 Labeling parallel lines and the transversal angle relationships

Write the angle relationship for each pair of angles.



Vocabulary:
 Alternate Interior Angles _____
 Alternate Exterior Angles _____
 Corresponding Angles _____
 Complementary Angles _____
 Supplementary Angles _____
 Vertical Angles _____

< 1 and < 2 are _____
 < 1 and < 3 are _____
 < 1 and < 4 are _____
 < 2 and < 5 are _____
 < 2 and < 6 are _____
 < 3 and < 2 are _____
 < 3 and < 7 are _____
 < 3 and < 8 are _____
 < 4 and < 7 are _____
 < 4 and < 6 are _____
 < 4 and < 5 are _____
 < 5 and < 7 are _____

Alternate Interior Angles are _____
 Alternate Exterior Angles are _____
 Corresponding Angles _____
 Complementary Angles _____
 Supplementary Angles _____
 Vertical Angles _____



Jan 10-12:18 PM



Geogebra, Exploring parallel lines cut by a transversal



What do you notice about parallel lines & a transversal?

Jan 10-2:50 PM

Geometry Name _____ ID: 1
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 Angle Relationships in Parallel Lines Date _____ Period _____
 Name the relationship: alternate interior, corresponding, or alternate exterior.

1)  2) 

3)  4) 

5)  6) 

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Jan 10-12:21 PM

Find the measure of angle h.

7)

8)

9)

10)

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Jan 10-12:21 PM

11)

12)

Find the value of x.

13)

14)

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Jan 10-12:22 PM

15)

16)

17)

18)

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Jan 10-12:22 PM

Geometry Groupwork Name _____ ID: 1
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Parallel lines, transversals, & relationships Date _____ Period _____

Find the measure of angle h.

1)

2)

3)

4)

Name the relationship: alternate interior, corresponding, or alternate exterior.

5)

6)

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Jan 10-12:23 PM

7)

8)

9)

10)

Find the measure of angle h.

11)

12)

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Jan 10-12:23 PM

13)

14)

15)

16)

Find the value of x.

17)

18)

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Jan 10-12:23 PM

19) $(2x+3)^\circ$ $3x^\circ$

20) 110° $(2x+1)^\circ$

21) 40° x°

22) $(2x+30)^\circ$ 40° 40°

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Jan 10-12:24 PM

January 17, 2019, Thursday

Identify each pair of angles as corresponding, alternate interior, alternate exterior, same-side interior, vertical, or adjacent.

1)

Find the measure of each angle indicated.

2)

Solve for x.

3)

Find the measure of the indicated angle that makes lines u and v parallel.

4)

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Jan 10-12:24 PM

Geogebra, triangle sum theorem

What did you see....did you know this?

Jan 10-2:51 PM

Geometry Name: _____ ID: 1

Triangle Sum of Interior Angles = 180 degrees Date: _____ Period: _____

Find the measure of each angle indicated.

1)

2)

3)

4)

Solve for x.

5)

6)

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Jan 10-12:25 PM

7)

8)

Find the measure of angle A.

9)

10)

11)

12)

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Jan 10-12:25 PM

Find the measure of each angle indicated.

13)

14)

15)

16)

Find the measure of each angle indicated. (Hint you may need some of your prior knowledge about angle relationships...)

17)

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Jan 10-12:26 PM

18)

19)

20)

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Jan 10-12:26 PM

Geometry Name _____ ID: 1
 Isosceles & Equilateral Triangle Relationships Date _____ Period _____

Find the value of x for either the missing angle or the side of the triangles.

1)

2)

3)

4)

5)

6)

7)

8)

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Jan 10-12:41 PM

9)

10)

11)

12)

13) $m\angle 2 = x + 121$

14) $m\angle 2 = 157 + x$

15) $m\angle 2 = x + 64$

16) $m\angle 2 = 20x - 3$

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Jan 10-12:42 PM

Use technology to define the following triangles:

Equilateral
 Isosceles
 Scalene

Jan 10-2:57 PM

January 18, 2019, Friday

Explore congruency with

<http://www.mathopenref.com/congruenttriangles.html>

Reference

Congruent Triangles

Definition: Triangles are congruent when all corresponding sides and interior angles are congruent. The triangles will have the same shape and size, but one may be a mirror image of the other.

In the simple case below, the two triangles PQR and LMN are congruent because every corresponding side has the same length, and every corresponding angle has the same measure. The angle at P has the same measure (in degrees) as the angle at L, the side PQ is the same length as the side LM etc.

Try this Drag any orange dot at P,Q,R. The other triangle LMN will change to remain congruent to it.

Full screen Print RESET

Jan 10-12:42 PM

Proving Triangles Congruent
 (SSS, SAS, ASA, AAS, HL)

Triangles are congruent when you have

SSS

SAS

HL

AAS

ASA

Jan 10-3:04 PM


Let's discover how to write triangle congruence statements...


Terry's How to write triangle congruence statements


Jan 10-3:29 PM


Geometry _____ Name _____ ID: 1
Triangle Congruence _____ Date _____ Period _____


State if the two triangles are congruent. If they are, state how you know.


1) 


2) 


3) 


4) 


5) 

6) 

7) 

8) 

9) 

10) 

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Jan 10-12:44 PM