

August 20, 2018

Draw a supplementary angle  
 Draw a complementary angle  
 What do supplementary angles = ?  
 What do a complementary angles = ?

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

1) obtuse  
 2) right  
 3) obtuse  
 4) straight  
 5) acute  
 6) acute

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Name each angle in four ways.

7)  $\angle EDC$   
 $\angle CDE$   
 $\angle D$   
 $\angle 5$

8)  $\angle HGF$   
 $\angle FGH$   
 $\angle G$   
 $\angle 1$

9)  $\angle HGF$   
 $\angle FGH$   
 $\angle G$   
 $\angle 1$

10)  $\angle JKL$   
 $\angle LKJ$   
 $\angle K$   
 $\angle 5$

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Use the angle addition postulate to find the missing measurements.

11)  $m\angle HUI = 152^\circ$  and  $m\angle HIF = 60^\circ$ . Find  $m\angle FIJ$ .  
 $\angle HIF + \angle FIJ = \angle HUI$   
 $60^\circ + x = 152^\circ$   
 $-60^\circ$   
 $x = 92^\circ$

12)  $m\angle QRS = 135^\circ$  and  $m\angle QRH = 74^\circ$ . Find  $m\angle HRS$ .  
 $\angle SRH + \angle HRQ = \angle SRQ$   
 $x + 74 = 135$   
 $-74$   
 $x = 61$

13) Find  $m\angle CDK$  if  $m\angle KDE = 160^\circ$  and  $m\angle CDE = 180^\circ$ .  
 $\angle CDK + \angle KDE = \angle CDE$   
 $x + 160 = 180$   
 $-160$   
 $x = 20$

14)  $m\angle JKL = 107^\circ$  and  $m\angle MKL = 85^\circ$ . Find  $m\angle JKM$ .  
 $\angle LKM + \angle MKJ = \angle LKJ$   
 $85 + x = 107$   
 $-85$   
 $x = 22$   
 $\angle MKJ = 22$

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15)  $m\angle FGZ = 52^\circ$  and  $m\angle ZGH = 94^\circ$ . Find  $m\angle FGH$ .  
 $\angle FGZ + \angle ZGH = \angle FGH$   
 $52 + 94 = x$   
 $146 = \angle FGH$

16) Find  $m\angle JIH$  if  $m\angle JIG = 70^\circ$  and  $m\angle GIH = 52^\circ$ .  
 $\angle JIG + \angle GIH = \angle JIH$   
 $70 + 52 = \angle JIH$   
 $122 = \angle JIH$

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

17) linear pair

18) adjacent/linear pair ✓

19) complementary

20) vertical

21) adjacent

22) complementary

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Using vertical pairs, find the measure of angle b.

23) vertical angle  
 $b = 73$

24)  $b = 52^\circ$

25)  $b = 59^\circ$

26)  $b = 35^\circ$

27) Complementary  
 $b + 64 = 90$   
 $-64 -64$   
 $b = 26$

Complementary  
 $b + 35 = 90$   
 $b = 55$

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Using complementary angles, find the value of x.

29)  $5x + 2 + 23 = 90$   
 $5x + 25 = 90$   
 $-25 -25$   
 $5x = 65$   
 $x = 13$

30) combine like terms  
 $x - 9 + 66 = 90$   
 $x + 57 = 90$   
 $-57 -57$   
 $x = 33$

31) line 180  
 $2x + x - 3 = 90$   
 $3x - 3 = 90$   
 $+3 +3$   
 $3x = 93$   
 $x = 31$

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Using linear pairs, find the measure of angle b.

32)  $\hat{=} 180$   
 $b + 123 = 180$   
 $-123 -123$   
 $b = 57$

33)  $b + 61 = 180$   
 $-61 -61$   
 $b = 119$

34)  $b + 48 = 180$   
 $-48 -48$   
 $b = 132$

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Find the value of x.

35)  $4x + 3 + 77 = 180$

36)  $2x + 9 + 3x + 1 = 180$   
 $5x + 10 = 180$   
 $5x = 170$   
 $x = 34$

37)  $x + 18 + 6x + 1 = 180$   
 $7x + 19 = 180$   
 $7x = 161$   
 $x = 23$

80, 34, 23, 18

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Complementary Angles: Find the measure of angle b.

38)  $b + 67 = 90$   
 $b = 23$

39)  $b + 36 = 90$   
 $b = 54$

40)  $b + 63 = 90$   
 $b = 27$

41)  $b + 41 = 90$   
 $b = 49$

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Supplementary Angles: Find the measure of angle b.

42)  $b + 130 = 180$   
 $b = 50$

43)  $b + 29 = 180$   
 $b = 151$

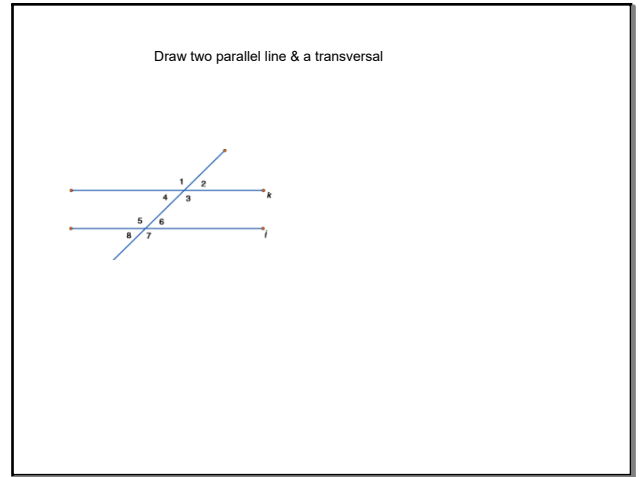
44)  $b + 138 = 180$   
 $b = 42$

45)  $b + 92 = 180$   
 $b = 88$

Aug 17-7:32 AM

August 21, 2018  
 Use tech:  
 What is a transversal in mathematics?  
 Draw a picture.

Aug 20-11:51 AM



Aug 17-2:37 PM

The angle relationships when parallel lines are cut by a transversal are

- Alternate Interior Angles**  
 alternate sides of the transversal and interior of the parallels
- Same Side Interior Angles**  
 Same side of the transversal and interior of the parallels
- Alternate Exterior Angles**  
 alternate sides of the transversal and exterior of the parallels
- Same Side Exterior Angles**  
 Same side of the transversal and exterior of the parallels

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Write the angle relationship for each pair of angles.

1 and 2 are _____	Alternate Interior Angles are _____
1 and 3 are _____	Alternate Exterior Angles are _____
1 and 4 are _____	Corresponding Angles _____
2 and 5 are _____	Complementary Angles _____
2 and 6 are _____	Supplementary Angles _____
3 and 7 are _____	Vertical Angles _____
3 and 8 are _____	
4 and 5 are _____	
4 and 6 are _____	
5 and 7 are _____	
5 and 8 are _____	
6 and 7 are _____	
6 and 8 are _____	
7 and 8 are _____	

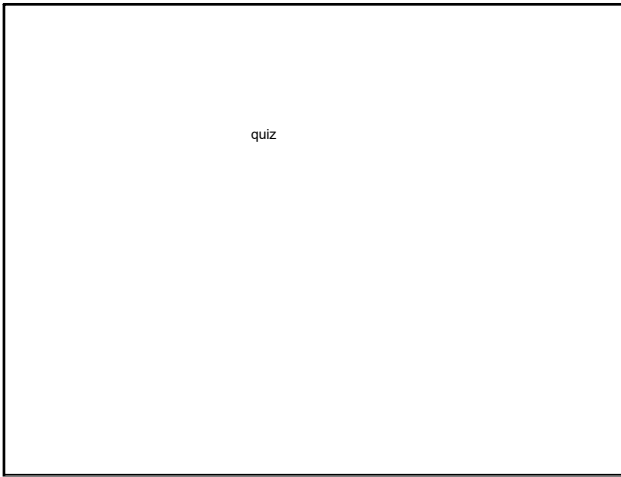
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transversal practice

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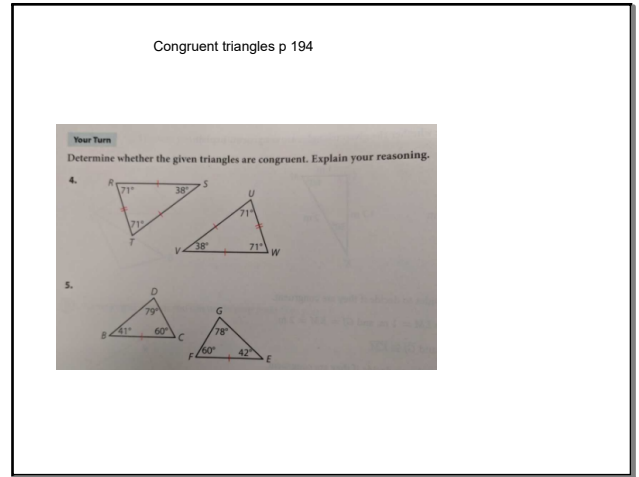
study guide

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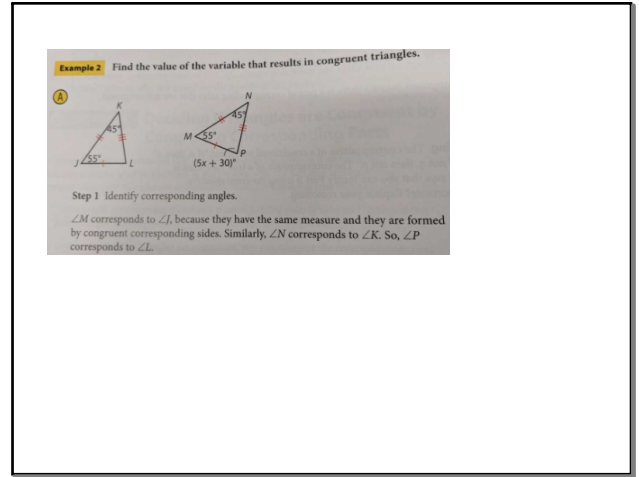
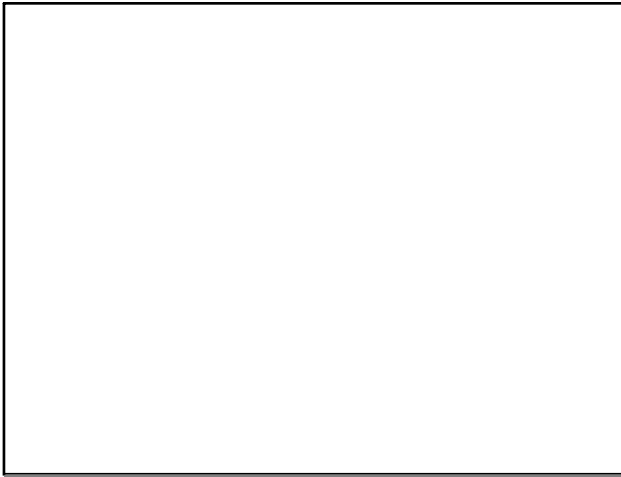


quiz

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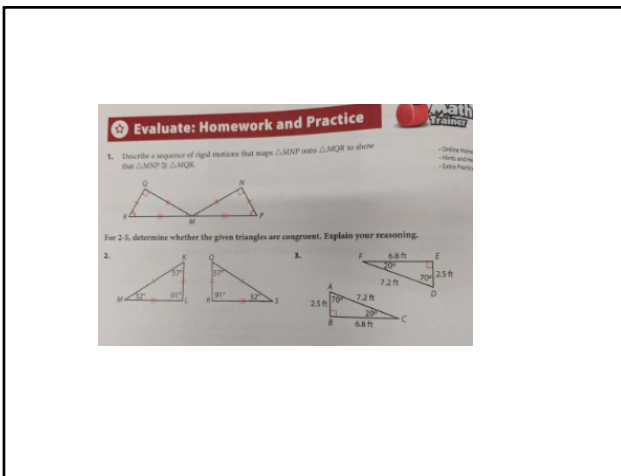


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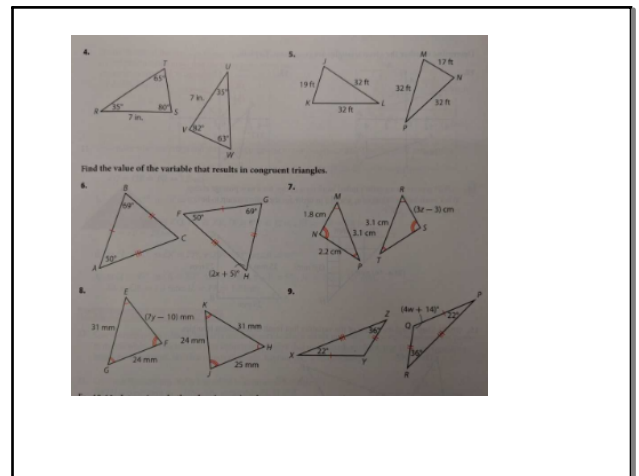


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Geogebra, interior triangle sum

Be ready to share what you noticed....

Try these!

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The Isosceles Triangle!

p 283, define  
isosceles triangle  
legs  
vertex angle  
base  
base angle

Be ready to label your vocabulary on this isosceles triangle!

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The equilateral triangle

p 286 copy in your notebooks:  
Equilateral Triangle Theorem  
&  
Converse of the Equilateral Triangle Theorem

Be ready to explain the markings on this triangle!

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p289 - let's practice

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Triangle Congruence..

What does congruence mean?

**The Rules**

p 203 copy ASA Triangle Congruence Theorem  
p 222 copy SSS Triangle Congruence Theorem  
p 227 copy AAS Triangle Congruence Theorem  
p 256 copy HL Triangle Congruence Theorem

**The Practice**

p 206 #3-7  
p 227 #4-11  
p 250 #1-6  
p 258 #1-5

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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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