Name _____

Geometry, Period _____

AMI Packet #1 – Geometry

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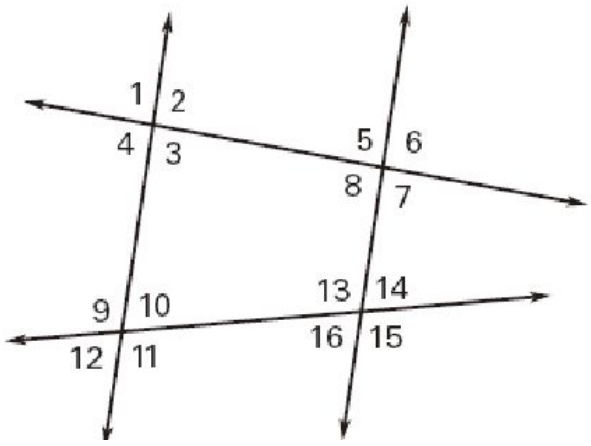
Classify each angle pair as *corresponding, alternate interior, alternate exterior, consecutive interior, or consecutive exterior.*



a) ∠1 and ∠9 _____

b) ∠8 and ∠13 _____

c) ∠6 and ∠16 _____

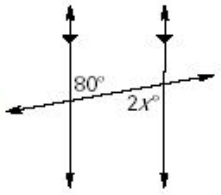
d) ∠4 and ∠10 _____

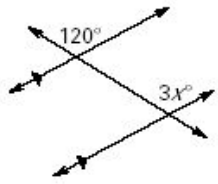
e) ∠8 and ∠16 _____

f) ∠10 and ∠13 _____

For t he following diagrams, state the type of angles that are given, state their relationship, and then find x.

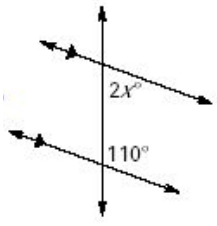
1.





3.

2.



Name _____

Geometry, Period _____

AMI Packet #2 – Geometry

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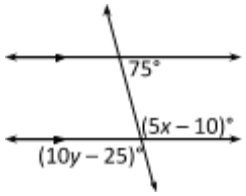
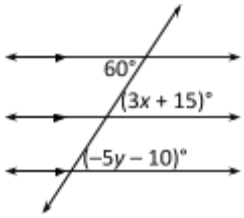
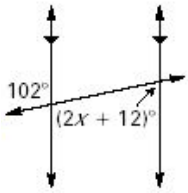
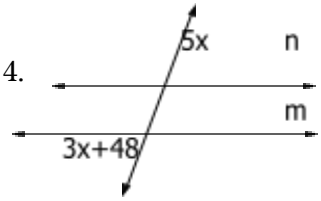
Find the missing variables.

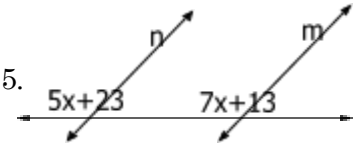
1. 

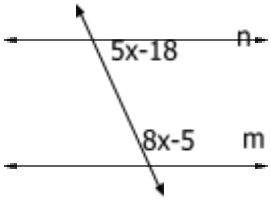
2. 

3. 

Find the value of x so that *n* // *m*. State the theorem or postulate that justifies your solution.

4. 

5. 

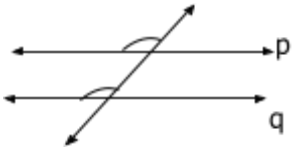
6. 

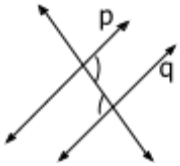
x = _____

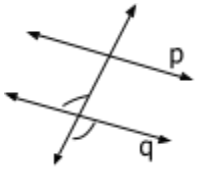
x = _____

x = _____

Can you prove that lines p and q are parallel? If so, state the theorem or postulate that you would use.

10. 

11. 

12. 

_____ _____ _____

Name _____

Geometry, Period _____

AMI Packet #3 – Geometry

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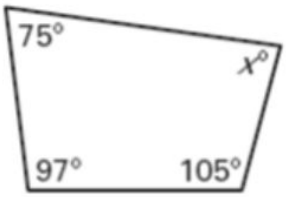
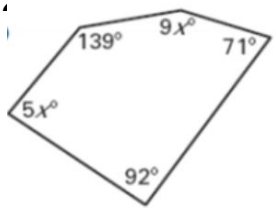
Using the Interior Angles of a Polygon Formula, find the value of *x*. Be sure to show all work.

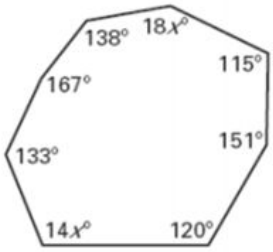
1.



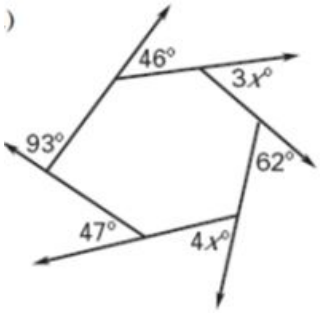
2



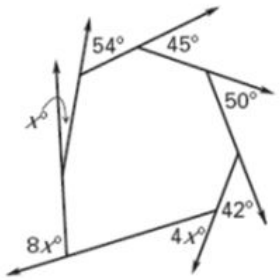
3.



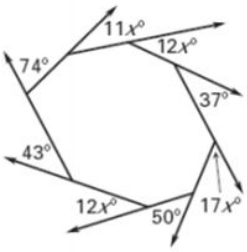
4.



5.



6.



Name _____

Geometry, Period _____

AMI Packet #4 – Geometry

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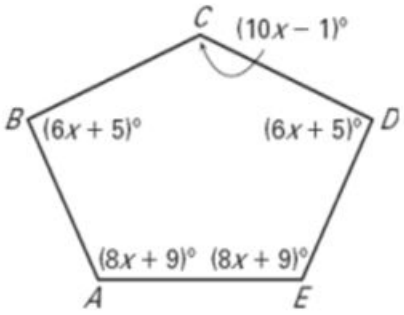
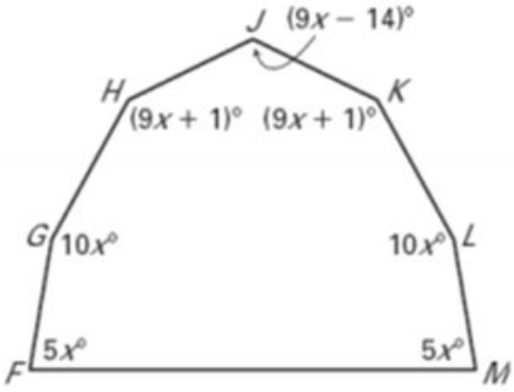
1. The side view of a light fixture is shown below. Find the value of *x*. The determine the measure of each angle.



2. The front view of a camping tent is shown. Find the value of x. Then find the measure of each angle of the tent.



Name _____

Geometry, Period _____

AMI Packet #5 – Geometry

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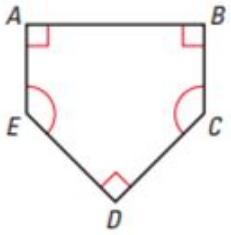
A home plate for a baseball field is a pentagon as shown.



1. Is the polygon regular? Explain why or why not.

2. What is the sum of the interior angles? Be sure to show your work in the space below.

3. Find the measures of $\measuredangle C$ *and* $\measuredangle E$.

You are constructing a regular hexagonal wooden bench like the one shown.

4. On the bench $\measuredangle 1 \cong \measuredangle 2$. Find the measures of $\measuredangle 1$ *and* $\measuredangle 2$, so that you know what angle to use to cut the pieces of wood.

Name _____

Geometry, Period _____

AMI Packet #6 – Geometry

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1) $6(v-1)+8v=-90$

2) $5(8x-2)=-250$

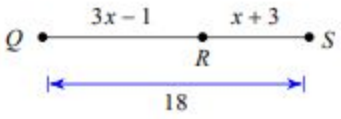
3) $-2x+\frac{6}{5}-\frac{14}{5}x=\frac{72}{5}$

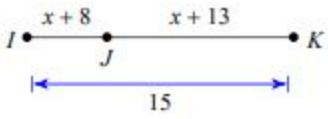
4) $\frac{1}{2}a+\frac{1}{6}a=\frac{5}{6}$

5) $\frac{181}{18}+2x=\frac{7}{3}\left(x+\frac{25}{6}\right)$

6) $\frac{3}{4}p-\frac{1}{2}\left(\frac{7}{5}p+1\right)=-1\frac{2}{5}p-\frac{1}{2}$

Solve for x.

7) 

8) 

Name _____

Geometry, Period _____

AMI Packet #7 – Geometry

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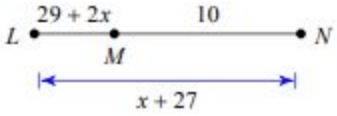
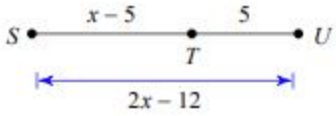
Find the length indicated.

9) Find LM

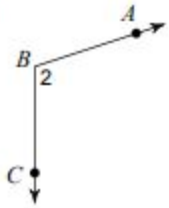


10) Find SU

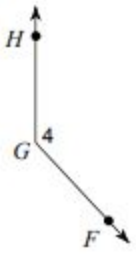


Name each angle in four ways.

11)



12)



Name _____

Geometry, Period _____

AMI Packet #8 – Geometry

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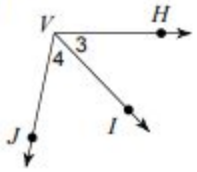
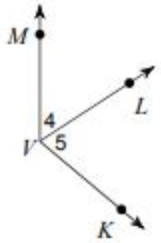
Name all the angles that have V as a vertex.

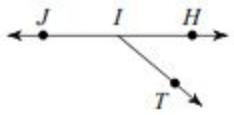
13)



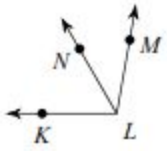
14)



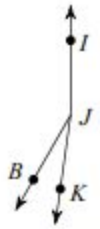
15) Find $m\angle TIJ$ if $m\angle HIT = 40°$ and $m\angle HIJ = 180°$.



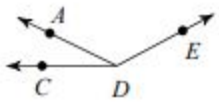
16) Find $m\angle KLM$ if $m\angle KLN = 60°$ and $m\angle NLM = 40°$.



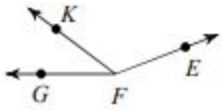
17) $m\angle KJB = 1 + 7x$, $m\angle BJI = 150°$, and $m\angle KJI = 58x - 2$. Find x.



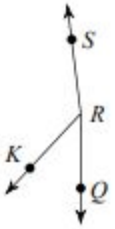
18) Find x if $m\angle CDE = 16x + 8$, $m\angle ADE = 9 + 13x$, and $m\angle CDA = 26°$.



19) Find x if $m\angle KFE = 20x + 2$, $m\angle GFK = 1 + 6x$, and $m\angle GFE = 159°$.



20) $m\angle QRK = 10x + 3$, $m\angle KRS = 2 + 32x$, and $m\angle QRS = 173°$. Find x.



Name _____

Geometry, Period _____

AMI Packet #9 – Geometry

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***C* is collinear with & between *A* and *E*. For each problem, draw a picture representing the three points and the information given. Solve for indicated.**

1. If $AC = 24$ in. and $CE = 13$ in., $AE =$ _____.

2. If $CE = 7$in. and $AE = 23$ in., $AC =$ _____.

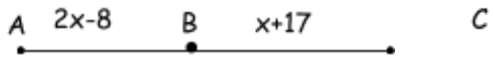
Find QR in the following problems. R is collinear with & between Q and S.

3. If RS = 44.6 and SQ = 68.4, find QR.

4. If RS = 33.5 and RQ = 80, find SQ.

Refer to the figure and the given information to find each measure.

5. Given : AC = 39 m

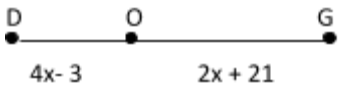


x = _____

AB = _____

BC = _____

6. Given the figure and DG = 60 ft.



x = _____

DO = _____

OG = _____

Name _____

Geometry, Period _____

AMI Packet #10 – Geometry

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If U is collinear with & between T and B, find the value of x and the lengths of the segments. Draw a picture for each problem with the given information, then write the equation to solve.

1. TU = 2x, UB = 3x + 1, TB = 21

x = _____

TU = _____

UB = _____

TB = _____

2. TU = 4x-1, UB = 2x -1, TB = 5x

x = _____

TU = _____

UB = _____

TB = _____

Write an equation **for the each:**

3. Segment AB is congruent to segment BC _____
4. $\overline{XY} \cong \overline{AB}$ _____
5. Point B bisects segment AC_____
6. 2x+5 is equal to 4x-8_____
7. Point A is the midpoint of segment PT_____

For 8-12, suppose $\overline{RS}$ is congruent to $\overline{MN}$. For each set of lengths, solve for x, and find the length of each segment. For 11-12, $\overline{AB} \cong \overline{BC}$.

8. RS = 3x + 17, MN = 7x – 15

x = _____

RS = _____

MN = _____

9. RS = x + 10, MN = 2x + 4

x = _____

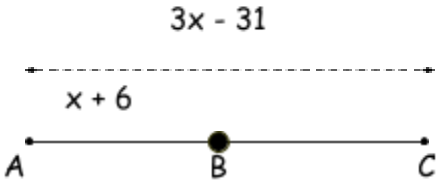
RS = _____

MN = _____

10. 

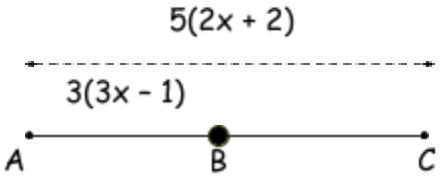
x = _____ AB = _____

BC = _____ AC = _____

11. 

x = _____ AB = _____

BC = _____ AC = _____

12. 

x = _____ AB = _____

BC = _____ AC = _____