# Geometry Notes Section 14 

## VOCABULARY

Angle:
Vertex:
Acute Angle:
2 rays that share a common endpoint endpoint
an angle more than 0 degrees, but less than 90 degrees

Right Angle: an angle $=90$ degrees
Obtuse Angle: an angle more than 90 degrees, but less than 180 degrees

Straight Angle: an angle $=180$ degrees
Reflex Angle: an angle more than 180 degrees, but less than 360 degrees

Congruent angles: angles with = measure
Angle Bisector:
a ray that divides an angle into 2 congruent angles

## EXAMPLES

1) Name 3 angles in the diagram.

2) Find the measure of each angle, then classify.

## a) angle KHJ

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b) angle GHK
c) angle GHJ

3) Measure of angle LKN $=145$ degrees. Find the measure of angle LKM \& angle MKN.


4a) Angle KLM is a straight angle. Find the measure of angle KIN $\&$ the measure of angle NLM.

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$$
\begin{array}{rrrr} 
& \mathrm{N} / 10 x-5)+(4 x-3)=180 \\
125^{\circ} & 55^{\circ} & 14 x-2=180 \\
(10 x-5) /(4 x+3) & 14 x & =182 \\
\hline K & X & X & =13
\end{array}
$$

4b) Angle EFG is a right angle. Find the measure of angle EFH \& the measure of angle HFG


5a) Identify all pairs of congruent angles.

b) The measure of angle $P Q R=130$ degrees, the measure of angle QRS=84 degrees, the measure of angle $T S R=121$ degrees. Find the measure of angle QPT \& angle PTS.
6) Ray YW bisects angle $X Y Z$, and the measure of angle $X Y W=18$ degrees. Find the measure of angle XYZ \& angle WYZ.


