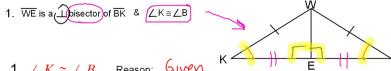
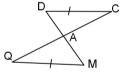
## Geometry Bellwork Friday, December 6, 2013

For 1 and 2, Each diagram shows two congruent triangles. Fill in the blanks and give a reason for each statement then write a congruence statement for each pair of triangles.



- 1.  $\angle K \cong \angle B$  Reason: Given
- 2. ∠KEW ≅ ∠BEW Reason: def ⊥ or all RT ∠'S ≅
- 3. LINE = LBWE Reason: 2/5/11/11/20/25 another A
- 4.  $\overline{KW} \cong \overline{BW}$  Reason: 6 lyep
- 5. KE ≅ BE Reason: Def of bisect
- 5. KE = DL.
  6. WE = ME Reason: Reflexive Prop

2.  $\overline{DQ}$   $\overline{MQ}$   $\overline{Q}$  and  $\overline{DM}$  bisect each other.



- 1.  $\angle MDC \cong \angle DMQ$  Reason: Alt int  $\angle C$ S

  2.  $\angle DCQ \cong \angle MQC$  Reason:
- 3. ∠QAM ≅ ∠ (AD Reason: Vert Lis &
- 4.  $\overline{DC} \cong \overline{MQ}$  Reason:  $\leq |\nabla e|$
- 5.  $\overline{DA} \cong \overline{MA}$  Reason: Def of bisect

$$\triangle \bigcirc AM \cong \triangle CA \uparrow$$

## Theorem 4-1

If two angles of one triangle are congruent to two angles of another triangle, then the third angles are congruent.



$$\angle C \cong \angle F$$

Given: 
$$\triangle$$
 JWC  $\cong$   $\triangle$  EKG  $m \angle W = 62^{\circ}$   $m \angle E = 70^{\circ}$   
The perimeter of  $\triangle EKG = 33$   
 $KG = 13$   $JC = 11$ 

Find the measure of the remaining angles and the lengths of the remaining sides of the two triangles.

$$m \angle J = 70$$
  $m \angle C = 48$ 

$$m \angle K = \{ \emptyset \}$$
  $m \angle G = \{ \emptyset \} \}$ 

$$JW = 9$$
  $WC = 3$ 

$$EK = 9$$
  $EG = ()$ 

