

Geometry

Unit One B: Angle Pairs (HW19)

Name: _____

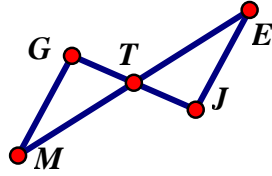
Date: _____ Period: _____

1) GIVEN:

T is the midpoint of \overline{ME}
& $\angle G \cong \angle J$

PROVE:

T is the midpoint of \overline{GJ}

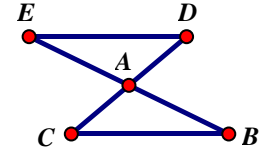


2) GIVEN:

$\angle D \cong \angle C$ & $\overline{CA} \cong \overline{DA}$

PROVE:

$\overline{EA} \cong \overline{BA}$



STATEMENT	REASON
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STATEMENT	REASON
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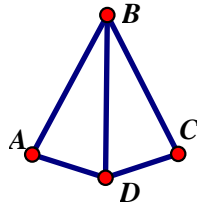
3) GIVEN:

$\overline{AB} \cong \overline{CB}$

\overline{BD} bisects $\angle ABC$

PROVE:

\overline{BD} bisects $\angle ADC$

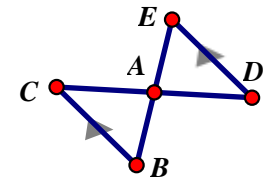


4) GIVEN:

$\angle C \cong \angle D$ & $\overline{CA} \cong \overline{DA}$

PROVE:

$\overline{BA} \cong \overline{EA}$

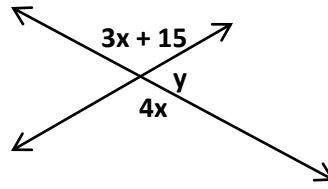
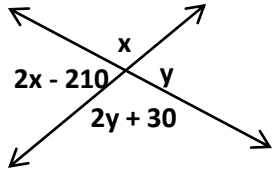


STATEMENT	REASON
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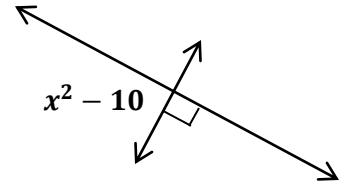
STATEMENT	REASON
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5. Solve the following.

a) $x =$ _____ $y =$ _____ b) $x =$ _____ $y =$ _____



c) $x =$ _____



2. Name a pair of vertical angles. _____

3. Name a linear pair. _____

4. Name a pair of adjacent angles. _____

5. Name a pair of supplementary angles. _____

6. Name a pair of complementary angles. _____

7. If $\angle A$ and $\angle B$ are supplements and $m\angle A = 78^\circ$, what is $m\angle B$? _____

8. If $\angle A$ and $\angle B$ are complements and $m\angle A = 59^\circ$, what is $m\angle B$? _____

9. If $\angle A$ and $\angle B$ are supplements and $m\angle A = x^\circ$, what is $m\angle B$? _____

10. If $\angle A$ and $\angle B$ are complements and $m\angle A = 3x^\circ$, what is $m\angle B$? _____

11. If $\angle A$ and $\angle B$ are vertical angles and $m\angle A = 102^\circ$, what is $m\angle B$? _____

12. If $\angle A$ and $\angle B$ are a linear pair and $m\angle A = (-12x + 13)^\circ$ and $m\angle B = (-21x + 2)^\circ$, what is the value of x ? $x =$ _____

13. If $\angle A$ and $\angle B$ are vertical angles and $m\angle A = (7x - 19)^\circ$ and $m\angle B = (4x + 2)^\circ$, what is the value of x ? $x =$ _____

