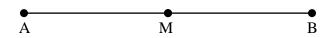
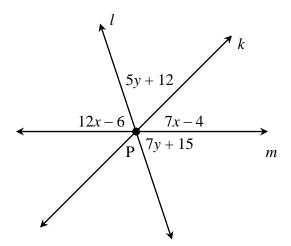
Name	_Per	_Date
Honors Geometry Practice Test		

1. Points A and B are endpoints of a line segment on the coordinate plane. Point M is the midpt. Using the following information, find the values of x and y. A(11, x); M(y, 3), B(-4, -5)

2. In the figure below, M is the midpt. of \overline{AB} . If AM = 7x - 5 and $AB = 3x^2 + 2x - 1$, find x. (**HINT: There are 2 answers for x**)



3. Lines *l*, *k*, and *m* intersect at pt. P. Find *x* and *y* in the following figure.



4. The supplement of an \angle is four less than three times the \angle 's complement. Find the measure of the angle, its complement, and its supplement.

5. If Y is between A and B, find x and the measure of \overline{YB} when

$$AY = \frac{3}{4}x + 3$$
, $YB = \frac{31}{7}x - 2$, and $AB = 5x + 5$

- 6. A line segment \overline{RS} has pt. T as its midpt. Find the **EXACT** coordinates of S if R and T have the following coordinates:

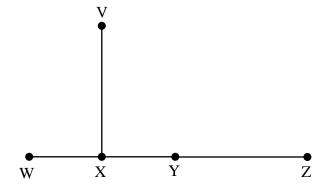
$$R\left(\frac{4}{11}, \sqrt{1792}\right)$$
 and $T\left(\frac{31}{7}, \sqrt{847}\right)$.

Write a paragraph proof.

7. Given: \overline{VX} bisects \overline{WY}

 $\overline{VX}\cong\overline{YZ}$

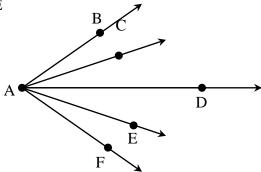
Prove: WX + VX = XZ



`Write a paragraph proof.

8. **Given:** \overrightarrow{AD} bisects $\angle BAF$ and $\angle CAE$

Prove: $\angle BAC \cong \angle EAF$



Write a paragraph proof.

9. Given: $\angle 1$ and $\angle 2$ are comp. \angle 's

 $\angle 2$ and $\angle 3$ are comp. \angle 's

Prove: $\angle 1 \cong \angle 3$

