

Practice before the quiz:

1. How would you solve the following systems of equations?

<p>a) $y = 8x + 5$ $y = 7x + 4$</p> <p>Substitution or Elimination Why?</p>	<p>b) $17 = 2x + 5y$ $7 = -2x + 3y$</p> <p>Substitution or Elimination Why?</p>	<p>Solve for x: $11 = 8x + 5y$ $18 = 7x - 4y$</p>
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2. Find the measures, writing a reason for congruency or supplementary:

a) $m\angle 1 =$ _____ reason: _____

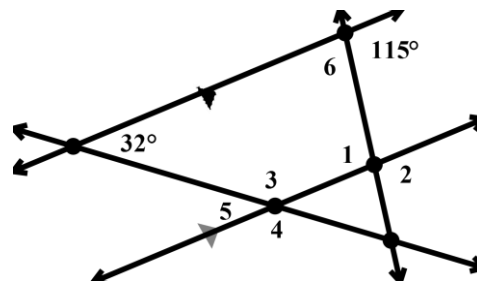
b) $m\angle 2 =$ _____ reason: _____

c) $m\angle 3 =$ _____ reason: _____

d) $m\angle 4 =$ _____ reason: _____

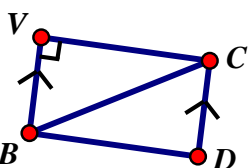
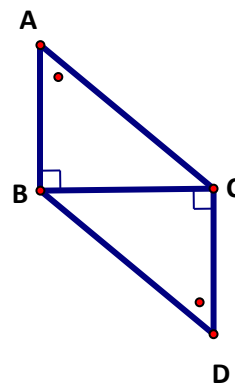
e) $m\angle 5 =$ _____ reason: _____

f) $m\angle 6 =$ _____ reason: _____



3. Given the drawing, what can you conclude about the following:

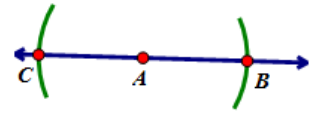
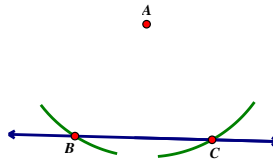
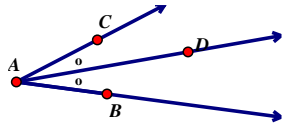
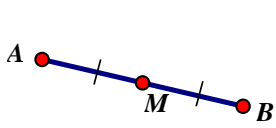
- $\overline{AB} & \overline{CD}$? They are _____ because _____
- $\angle ABC$? It is a _____ angle because _____



4. Given the drawing, what can you conclude about $\overline{VC} & \overline{CD}$? They are _____ because _____

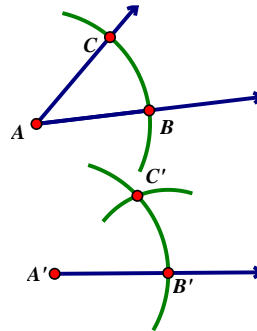
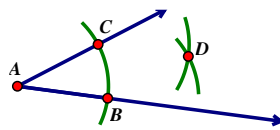
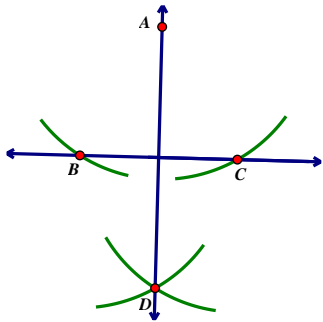
PROBLEM SET 3-7 LAB

1. Use the diagram to complete the relationship.



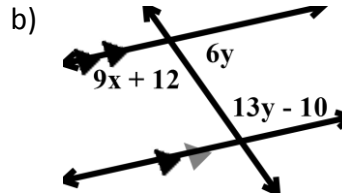
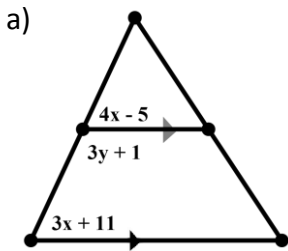
- a) _____ = _____ c) _____ = _____ e) _____ = _____ g) _____ = _____
 b) _____ \cong _____ d) _____ \cong _____ f) _____ \cong _____ h) _____ \cong _____

2. Choose which construction matches the diagram.



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|------------------------------------|----------------------|----------------------|
| a) The Midpoint of \overline{BC} | a) Copy \angle | a) Copy \angle |
| b) \perp line through A | b) \perp bisector | b) \perp bisector |
| c) \angle bisector | c) \angle bisector | c) \angle bisector |
| d) Copy a segment | d) Copy a segment | d) Copy a segment |

3. Solve the following, writing a reason for any equation you write.



4. Determine the following measures:

- a) $m\angle 5 =$ _____ b) $m\angle 1 =$ _____
 c) $m\angle 4 =$ _____ d) $m\angle 6 =$ _____
 e) $m\angle 2 =$ _____

