

Name:

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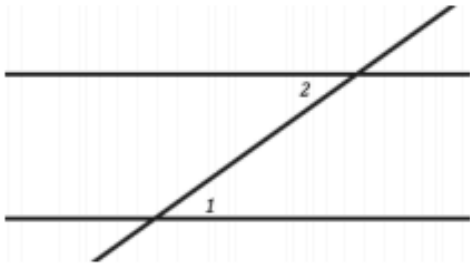
/10

HOMEWORK 6.4

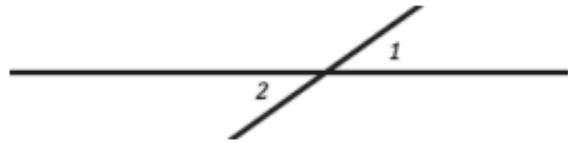
SECONDARY MATH II

Match the diagrams below with the best name or phrase that describes the angles.

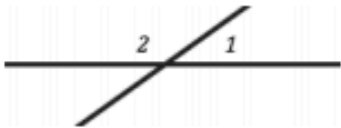
___ 1.



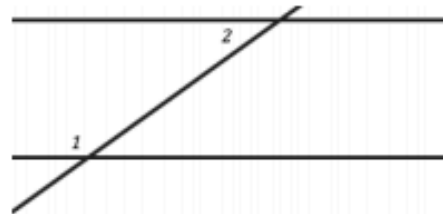
___ 2.



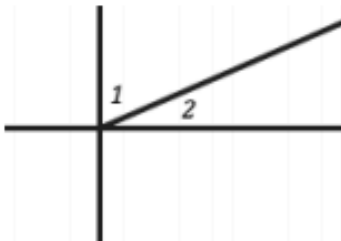
___ 3.



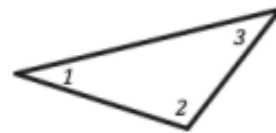
___ 4.



___ 5.



___ 6.



a. Alternate Interior Angles

b. Vertical Angles

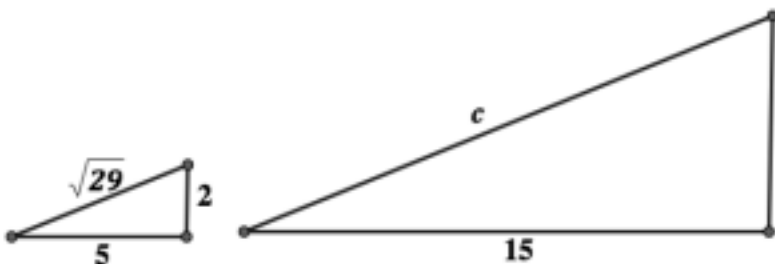
c. Complementary Angles

d. Triangle Sum Theorem

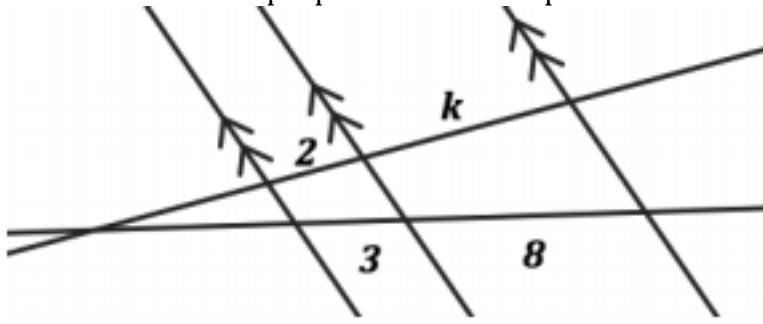
e. Linear Pair

f. Same Side Interior Angles

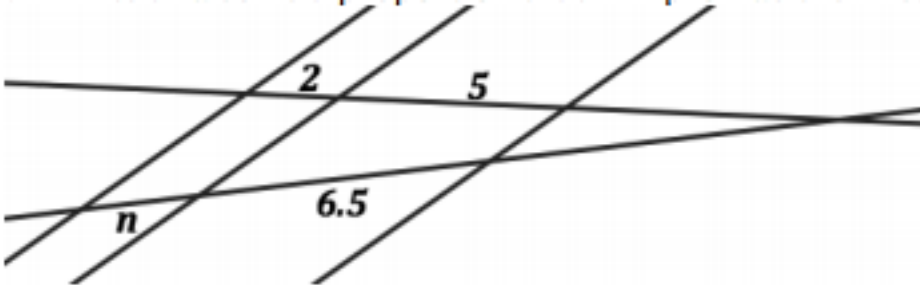
7. Create a proportion for each set of similar triangles. Then solve the proportion.



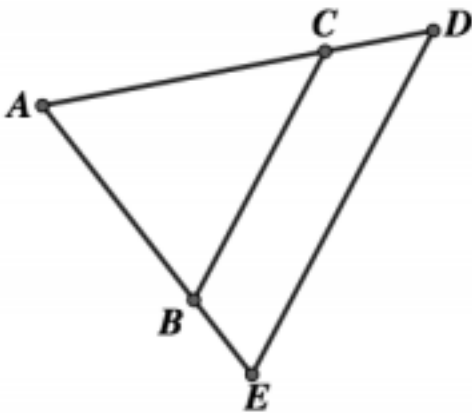
8. Write and solve a proportion that will provide the missing length.



9. Write and solve a proportion that will provide the missing length.



10. Find and label the parallel lines (i.e. $\overline{AB} \parallel \overline{CD}$). Then write a similarity statement for the triangles that are similar. (i.e. $\triangle ABC \sim \triangle XYZ$)



Answers:

7. $c = 16.16$

8. $k = 5.\bar{3}$

9. $n = 2.6$