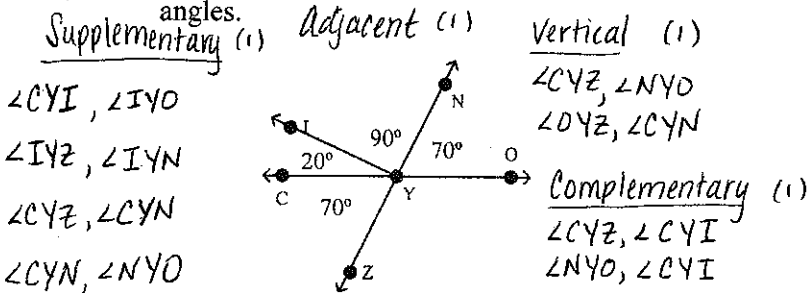


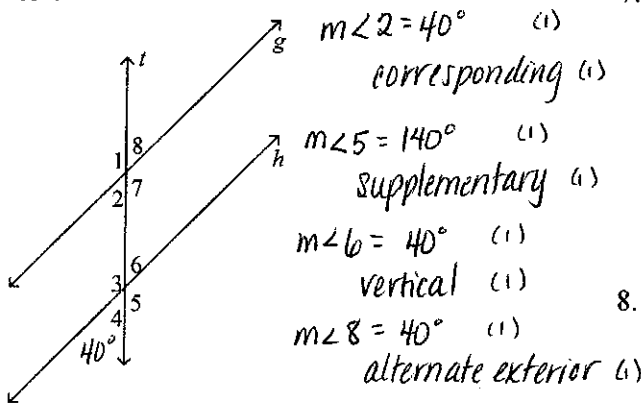
Math 7 - Chapter 5 & 12 Part I Review Worksheet

39 Q, 25 pt.

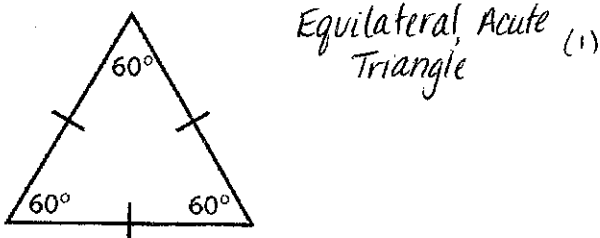
1. Use the diagram below to name a pair of adjacent angles, a pair of vertical angles, a pair of complementary angles, and a pair of supplementary angles.



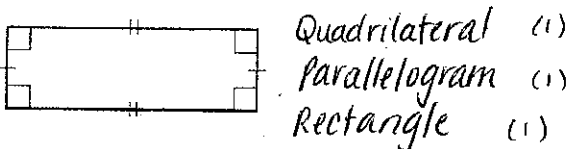
2. Use the diagram below to find the angle measures of $\angle 2$, $\angle 5$, $\angle 6$, and $\angle 8$. State the relationship of each angle to the given angle if $g \parallel h$ and $m\angle 4 = 40^\circ$.



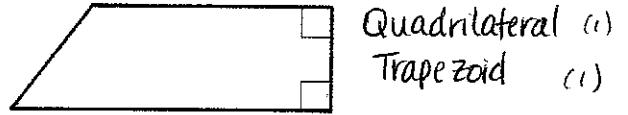
3. Classify the triangle according to its sides and angles.



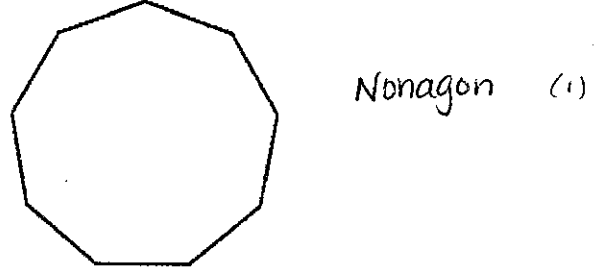
4. Classify the polygon with all names that apply.



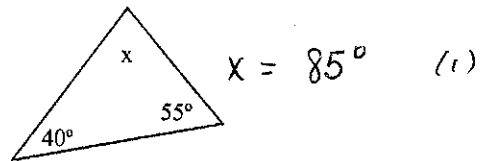
5. Classify the polygon with all names that apply.



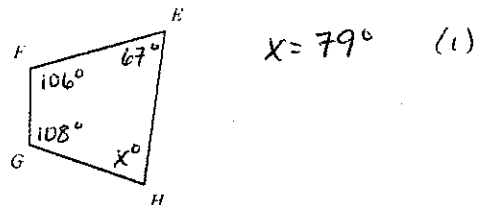
6. Classify the polygon with all names that apply.



7. Find the unknown angle measure.



8. Find the missing measure in the quadrilateral given $\angle E = 67^\circ$, $\angle F = 106^\circ$, $\angle G = 108^\circ$, $\angle H = x^\circ$



9. A quadrilateral has angle measures of $2x^\circ$, $2x^\circ$, x° , and x° . Find the value of x . 60° (1)
10. Find the sum of the measures of the interior angles of the octagon. 1080° (1)
11. Find the measure of one interior angle in the regular heptagon. Round to the nearest tenth if necessary. 128.6° (1)
12. Find the scale factor using the scale given:

$\frac{1}{2} \text{ in} = 2 \text{ ft}$ $\frac{1}{48}$ (1)

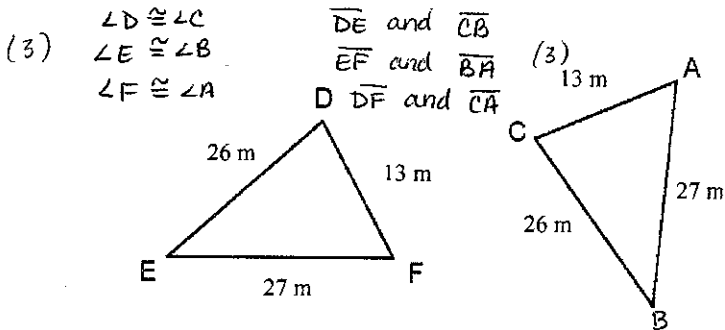
13. Find the scale factor using the scale given: $\frac{1}{80}$ (1)
 $1mm = 8cm$

14. Find the length of a living room on the drawing with the given scale of $1in = 6ft$ if the room is 14 ft long.
 $2\frac{1}{3} in$ (1)

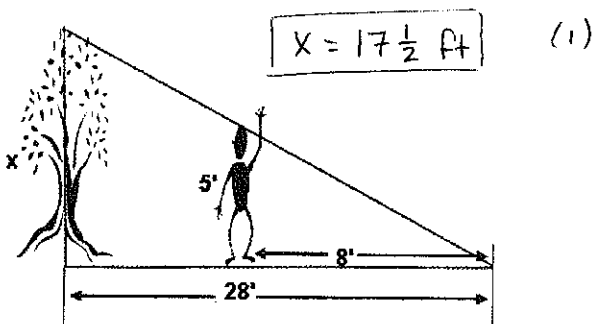
15. On a map, the scale is $1in = 2.5mi$. Find the dimensions of a school district that is 4 inches by 9 inches on the map.
 $10 mi$ by $22.5 mi$ (2)

16. The length of a rectangle is 22 cm and the width is 4 cm. A similar rectangle has a width of 6 cm. What is the length of the second rectangle?
 $33 cm$ (1)

17. Determine whether the triangles are similar. If so, name all the corresponding sides and angles, then write a similarity statement. $\triangle DEF \cong \triangle CBA$ (1)



18. Use the two similar triangles to find the height of the tree.



19. At the same time a 25-foot-tall tree casts a 15-foot shadow, a small plant casts a 3-foot shadow. How tall is the plant?

$5 ft$ (1)