Geometry **HW #_____** **Name_____**
Chapter 7
Review B **Period_____ Col._____Date_____**

SHOW WORK! Give exact answers (whole numbers, fractions, mixed numbers, or decimals) in simplest form. Do not use rounded off decimals as answers.

1. Complete:

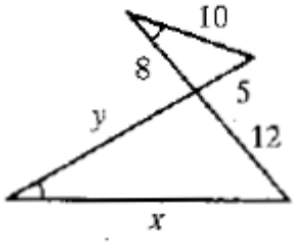
If $\frac{k}{m} = \frac{2}{7}$, **then** $\frac{m}{7} =$ ___ **and** $\frac{k+m}{m} =$ ___.

2. Solve for x.

$$\frac{x-2}{x-5} = \frac{2x+1}{x-1}$$

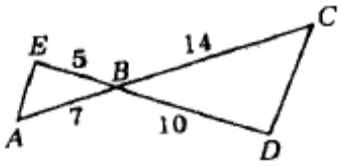
3. The ratio of the measures of the exterior angles of a pentagon is 2 : 3 : 4 : 4 : 5. Find the largest exterior angle measure.

4. Find x **and** y.

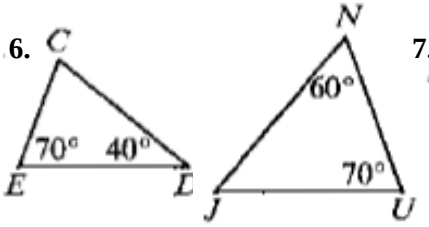


Can the triangles be proved similar? If so: a) name the similar triangles and b) give the method you would use (AA~, SAS~, or SSS~). If triangles not similar, write "not similar".

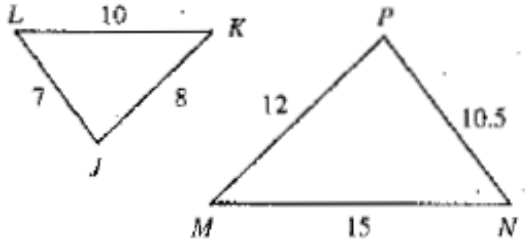
5.



6.



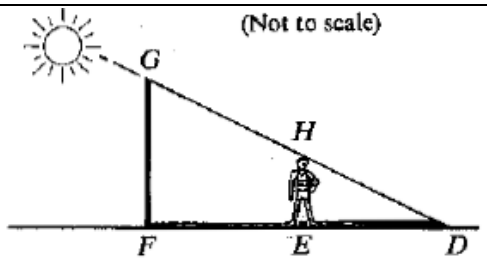
7.



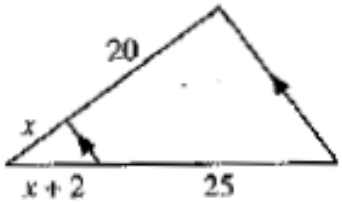
5a)_____ **6a)_____** **7a)_____**

b)_____ **b)_____** **b)_____**

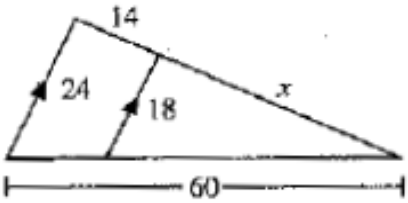
8. To estimate the height of a pole, a basketball player exactly 2 meters tall stood so that his shadow and the pole's shadow overlapped. If DE **= 1.6 meters and** EF **= 2.8 meters, find the height of the pole.**



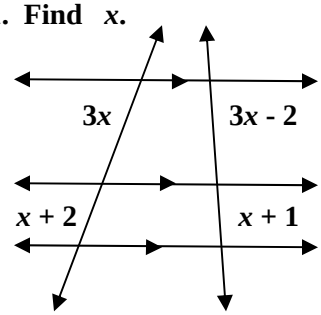
9. Find *x*.



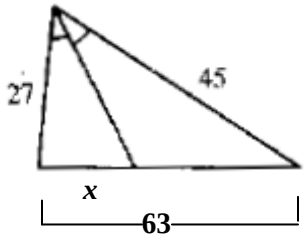
10. Find *x*.



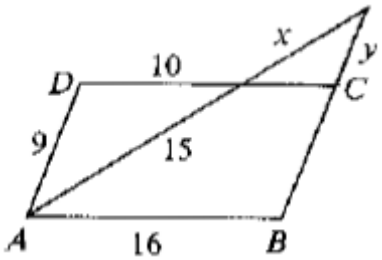
11. Find *x*.



12. Find *x*.



13. Find *x* and *y*. *ABCD* is a parallelogram.



14. Given: $\overline{FE} \parallel \overline{SR}$

Prove: $XF \cdot XR = XS \cdot XE$