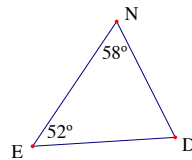


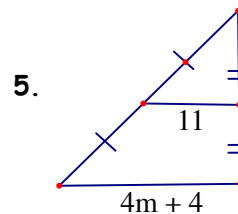
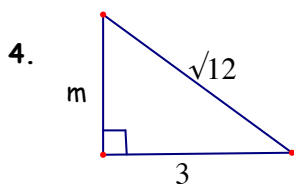
Chapter 5 - Properties & Attributes of Triangles

- There are rods of 5 in. 9 in. and 11 in. on the ground.
 - Can these rods form a triangle?
 - Classify the triangle by sides _____ and by angles _____.
 - What if only the 9" and 11" rod were present, then what possible lengths could the third rod be to form a Δ ?
- Rank the sides of ΔEND from *shortest* to *longest*

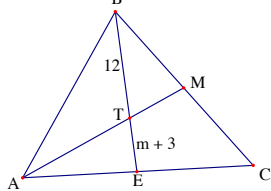


- Luke and Wyatt left BHS at 5 pm. Wyatt went home, 3.5 miles due south. Luke drove due east for 6 miles. How far apart are the two boys?

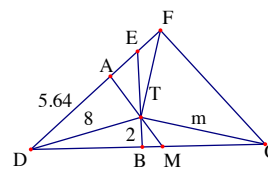
#4-8 Solve for m in each diagram.



6. \overline{BE} and \overline{AM} are medians



7. \overline{BE} and \overline{AM} are perpendicular bisectors

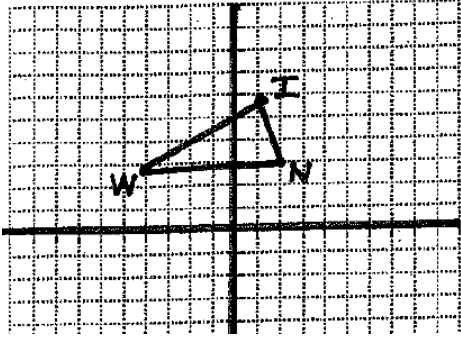


#9-10, Use ΔZIP where $Z(5, 10)$, $I(-2, -5)$ and $P(8, 1)$

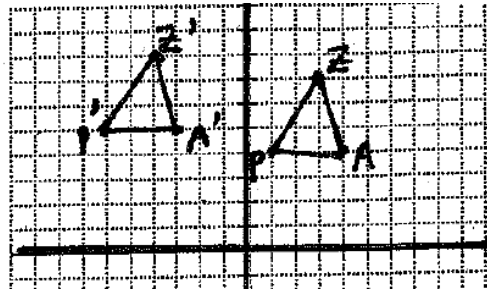
- Find the equation of the median for side \overline{IP} in point-slope form.
- Find the equation of the altitude from side \overline{ZI} in slope intercept form.

Chapter 12 - Transformational Geometry

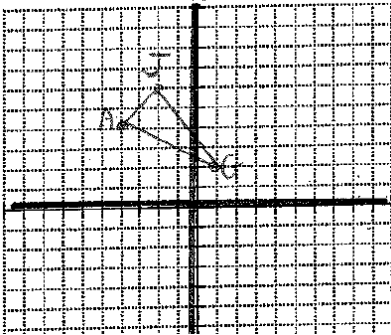
1. Translate the triangle with vector $\langle 3, -4 \rangle$



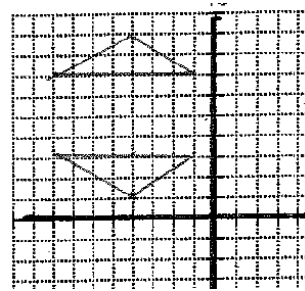
2. The triangle was translated. Write the rule $(x,y) \longrightarrow (\quad , \quad)$



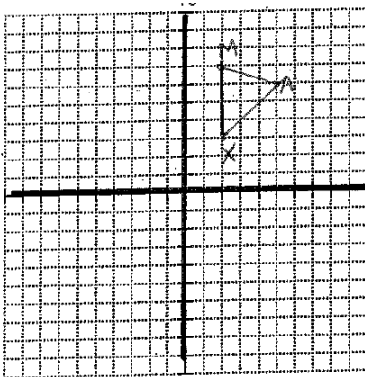
3. Reflect the triangle over $x = -2$



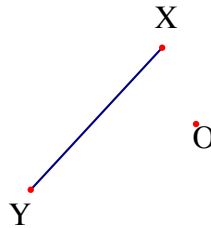
4. What line was the triangle reflected over?



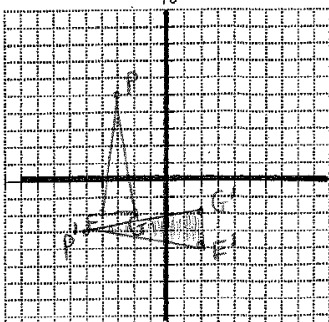
5. Rotate the triangle 180° about origin.



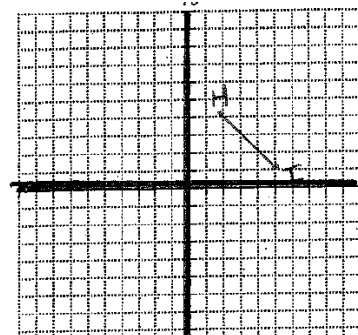
6. Rotate XY 60° clockwise about O.
(Compass & protractor)



7. Give the direction and distance the Δ was rotated about $(0,0)$

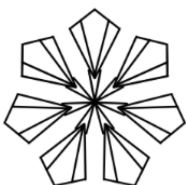


8. Reflect the segment over the x-axis, then $\langle -2, 3 \rangle$



#9-10, Describe the symmetry of each design.

9.



10.

