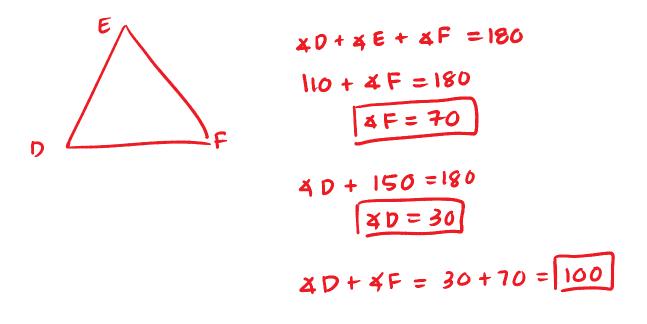


## #9

Always, Sometimes, Never

- a. The acute angles of a right triangle are complementary
- b. The supplement of one of the angles of triangle is equal in measure to the sum A of the other two angles of the triangle
- c. A triangle contains two obtuse angles N
- d. If one of the angles of an isosceles triangle is 60 degrees, the triangle is A equilateral
- e. If the sides of one triangle are doubled to form another triangle, each angle of the second triangle is twice as large as the corresponding angle of the first triangle.

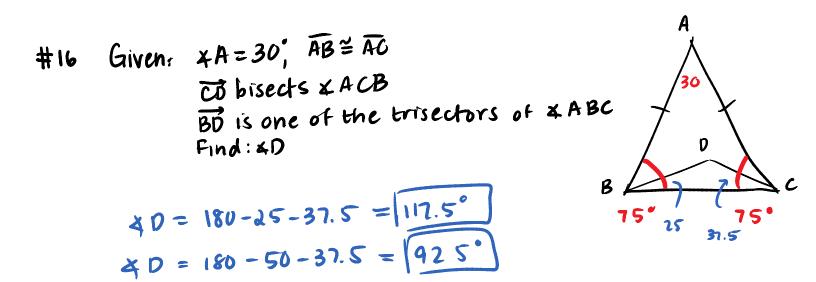
#12 In  $\Delta DEF$ , the sum of the measures of  $\Delta D$  and  $\Delta E$  is 110: The sum of measures  $\Delta E$  and  $\Delta F$  is 150. Find the sum of the measures of  $\Delta D$  and  $\Delta F$ .

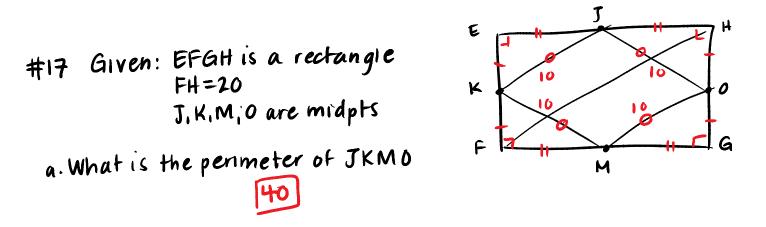


**#IS** 

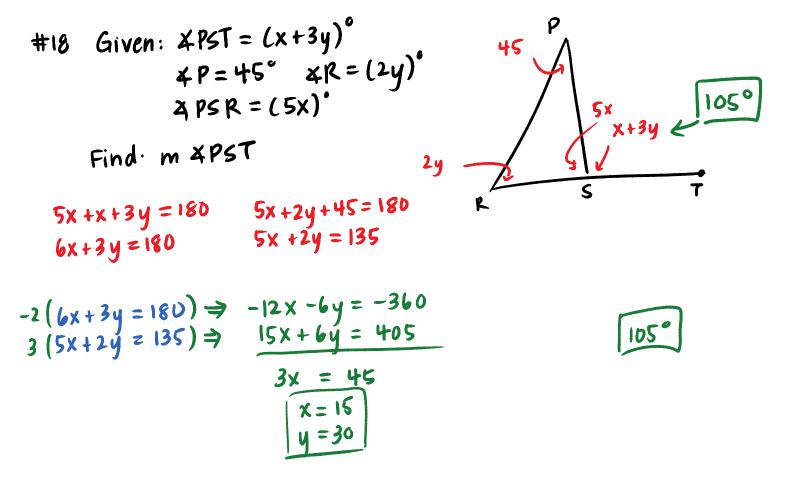
The measures of two angles of a triangle are in the ratio of 2:3. If the third angle is 4 degrees larger than the larger of the other two angles, find the measure of the exterior angle at the third vertex.

Small: 2x + 3x + 3x + 4 = 180med: 3x + 4 = 180Large: 3x + 4 = 10 x = 221 + 2 = 10





b. What is the most descriptive hame for JKMO **PHOMBUS** 



**#19** Prove that the midpoint of the hypotenuse of a right triangle is equidistant from all three vertices (Hint: see proof of midline theorem)

