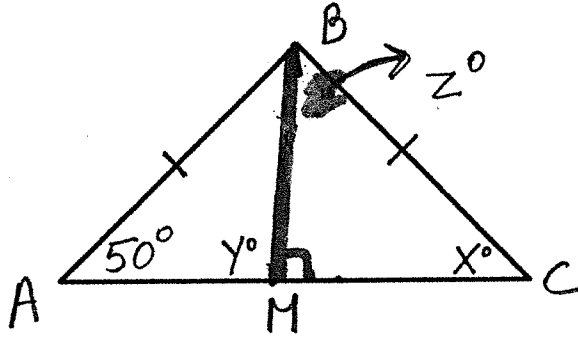


Quiz Review

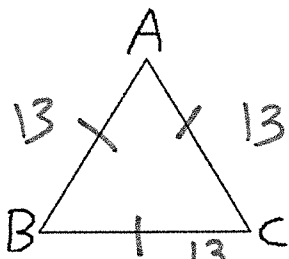
Name: Key

1. Determine the value of each variable. Justify each equation.



$X = 50^\circ$ isosceles triangle
 $Y = 90^\circ$ right angle
 $Z = 180^\circ - 90^\circ - 50^\circ$
 $Z = 40^\circ$ Angle Sum of Triangle

2. Equilateral triangle ABC has the following lengths: $AB = 2n + 7$, $BC = 4n + 2$, and $CA = n + 1$. Find the length of each side. Justify your equation.



$AB = 2(2.5) + 7$
 $= 13$

$2n + 7 = 4n + 2$ equilateral
 $\frac{2n + 7}{-2n} = \frac{4n + 2}{-2n}$
 $7 = 2n + 2$
 $\frac{7}{-2} = \frac{2n + 2}{-2}$
 $\frac{5}{2} = \frac{2n}{2}$ $n = 2.5$

3. Which of the terms below can be used to describe a triangle with one obtuse interior angles and two equal sides? Circle ALL that apply.

a) Scalene

b) Isosceles

c) Equilateral

d) Right

e) Obtuse

f) Acute