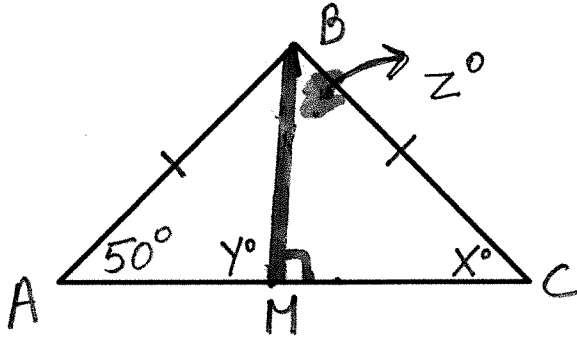
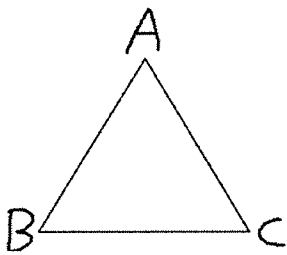


1. Determine the value of each variable. Justify each equation.



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.



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