

Math Club
Meeting 0
January 25, 2007

1. We start with an isosceles triangle with angles 50 degree, 50 degree, and 80 degree measures. From the base, we measure 10° and 20 degrees as shown. What is the measure of the x angle?
2. 10 steps starway at any point, we can step up 1 or two steps, (we never step down). How many different ways can we go up?
3. Let m and n be positive integers. Define set $A = \{\blacksquare m + \blacksquare n \text{ where } \blacksquare, \blacksquare \text{ are all integers}\}$.

Let a be the smallest positive number in A . Prove that a is a divisor of every element.