Problem Solving: Geometry and Uniform Motion

1. Find two supplementary angles such that the measure of the first angle is three times the measures of the second.

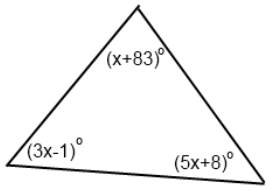
(similar to p.150 #14)

2. Find two complementary angles such that the measure of the first angle is 35^o less than the measure of the second.

(similar to p.150 #16)

3. Find the measures of the angles of the triangle.

(similar to p.150 #18)



4. In a triangle, the second angle measures three times the first. The measure of the third angle is 40 more than the second. Find the measures of the three angles.

(similar to p.150 #20)

5. The width of a rectangle is 20 m less than half of the length. If the perimeter is 200 meters, find the length of each side of the rectangle.

(similar to p.150 #22)

6. A rectangular field has been divided so that the length of one of the parcels is three times the other. The smaller parcel is a square and the larger parcel is a rectangle. If it takes 200m of fencing to enclose the field and divide the two parcels, find the dimensions of the field.

(similar to p.150 #24)

7. Two trains leave, traveling the same direction on parallel tracks. One train is traveling 80 mph and the other is traveling at 30 mph. How long before they are 300 miles apart?

(similar to p.150 #28)