

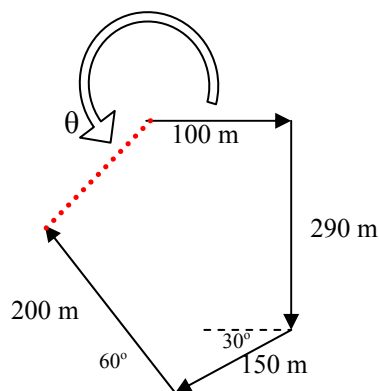
Name: _____

Date: _____

Section C D F

Vectors and Trig II

1. A person walks the path shown in Figure 3-27. The total trip consists of four straight-line paths. At the end of the walk, what is the person's resultant displacement measured from the starting point? Find the distance, and the direction, measured counterclockwise from the $+x$ direction.



2. The eye of a hurricane passes over Grand Bahama Island. It is moving in a direction 60.0° north of west with a speed of $v_1 = 36.0$ km/h. Exactly three hours later, the course of the hurricane shifts due north, and its speed slows to $v_2 = 27.0$ km/h, as shown in Figure 3-30. How far from Grand Bahama, in kilometers, is the hurricane 4.50 h after it passes over the island?

