

UNIT 2: PHYSICS

Topic 3 Review

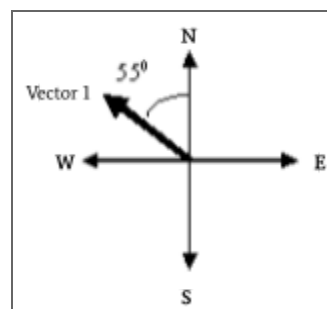
1) Jason and Maya are playing catch. Maya throws the ball a distance of 12 m towards Jason, who catches the ball and then throws it back. Jason's toss, however, goes over Maya's head and lands 5 m behind her.

a. Determine the total distance travelled by the ball. **(1)**

b. Determine the ball's displacement from its original position. **(1)**

2) Which of the following coordinates can be used to indicate the direction of vector 1 in the diagram below? (select all that apply) **(1)**

- I. 55°
- II. 145°
- III. 305°
- IV. 55° [W] of [N]
- V. 35° [N] of [W]



Name: _____

TOTAL = /15

3) A cyclist travels 39 m [N] in 3.0 s. How fast is the cyclist riding? **(2)**

4) A skier travels at a velocity of 29 m/s[S] from a starting point. If he is able to complete a run in 9.2 s, what is his displacement from the starting point? **(2)**

5) You and your family are driving to your grandparents' home, which is 95 km East of your house. If you drive at an average velocity of 85 km/h [E], how long will it take you to get there? **(2)**

Name: _____

TOTAL = /15

