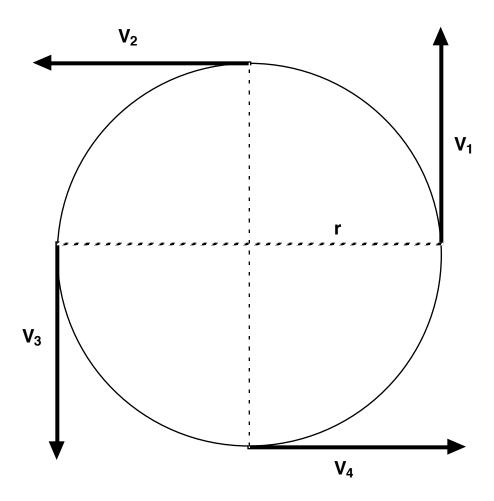
Velocity Vectors and Centripetal Acceleration



A car is traveling at a constant 88 ft/sec around a circular racetrack. Its velocity at t_1 (time 1) is v_1 . A short time later (at time 2) it is v_2 ; at time 3, it is v_3 , and at time 4, it is v_4 .

- 1. Is this car accelerating? Why? _____
- 2. On separate graph paper, copy vectors v_1 and v_2 , then graphically determine $v_2 v_1$.

This vector would therefore represent the car's change in velocity (Δv) .

