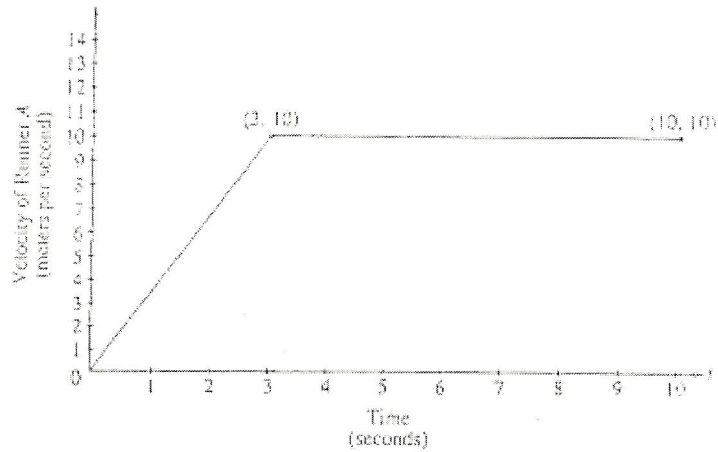


Two runners, A and B, run on a straight racetrack for $0 \leq t \leq 10$ seconds. The graph below, which consists of two line segments, shows the velocity, in meters per second, of Runner A. The velocity, in meters per second, of Runner B is given by the equation

$$v(t) = \frac{24t}{2t + 3}$$



- Find the velocity of Runner A and the velocity of Runner B at time $t = 2$ seconds. Indicate units of measure.
- Find the acceleration of Runner A and the acceleration of Runner B at $t = 2$ seconds. Indicate units of measure.
- At what time do the two runners accelerate at the same rate?

a)	
b)	
c)	