

Name:

Velocity and Tangent Lines

The graph below represents the distance a swimmer is away from the wall when she first pushes off.

1. Draw a line whose slope is the same as the average velocity between $t = 0.5$ and $t = 2$.
2. Draw a line whose slope is the same as the instantaneous velocity at $t = 2$.
3. Is the swimmer slowing down or speeding up?

The swimmer is slowing down since the gradients is reducing indicating a reduction in velocity

