Section 2.1 The Tangent and Velocity Problem

Name:_____

Date: _____

Learning Goal 2.1	Finite limits and continuity.
-------------------	-------------------------------

Т

More Questions

1. Suppose that the amount of air in a balloon after t hours is given by

$$V(t) = t^3 - 6t^2 + 35.$$

Estimate the instantaneous rate of change of the volume after 5 hours numerically. Confirm algebraically.

2. Consider numerically, then graphically (using technology) what happens to the y – value as the x – value gets close to zero of

$$y = \frac{\sin x}{x}$$

3. Consider numerically, then graphically (using technology) what happens to the y – value as the x – value gets close to zero of

$$y = \frac{\tan(3x)}{\tan(5x)}$$