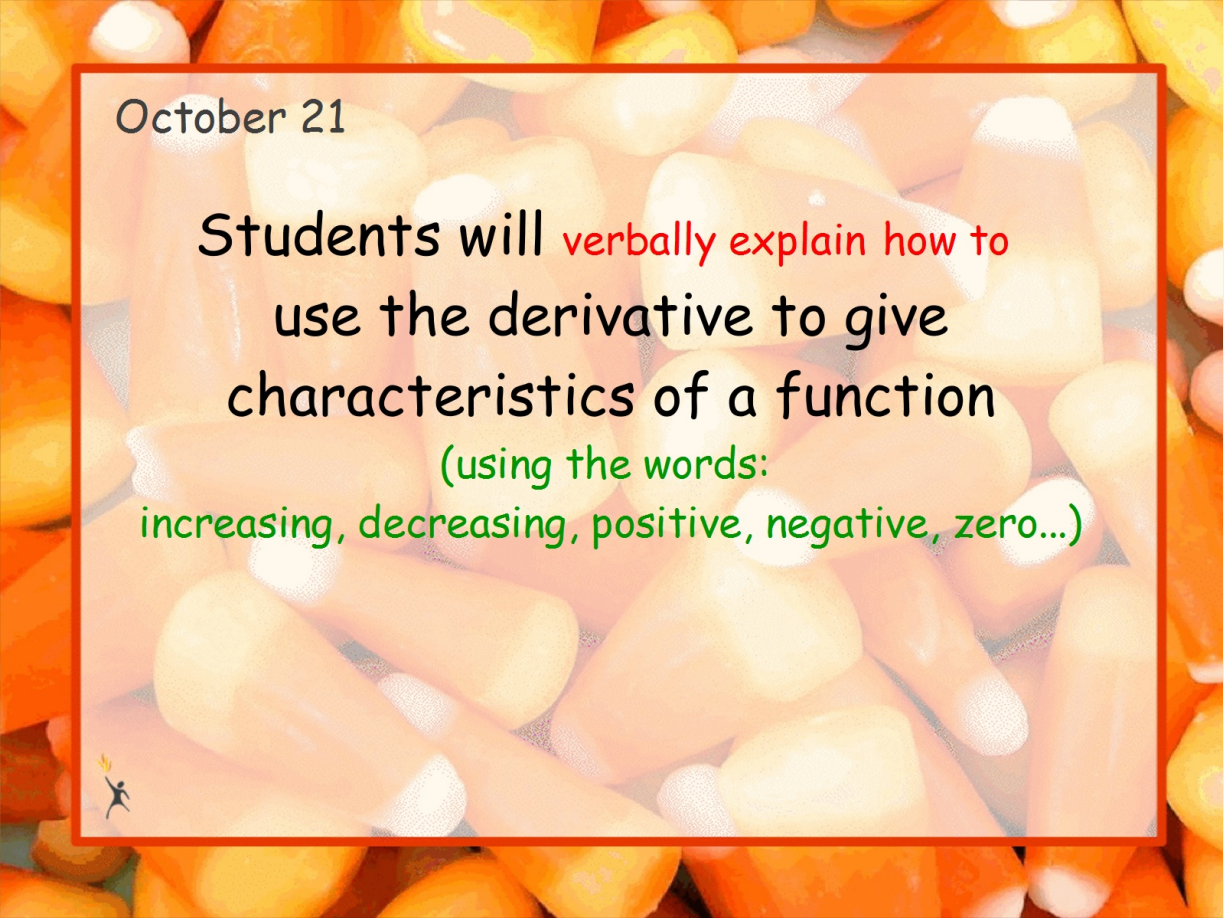


October 22

How is the first derivative different from the second derivative?



October 21

Students will verbally explain how to use the derivative to give characteristics of a function

(using the words:
increasing, decreasing, positive, negative, zero...)



Consider a differentiable function f having domain all positive real numbers and $f(x) = \frac{3x^2 - 2}{3x^3}$.

a. Show that $f'(x) = \frac{2 - x^2}{x^4}$.

- b. Find the x -coordinate of the critical point of f . Determine whether the point is a relative maximum, relative minimum, or neither. Justify your answer.