Warm-Up

1. What's significant about the vertex for all parent functions? its at the orgin

- 2. identify the parent function: $f(x) = -(x + 3)^3 5$
- 3. Identify the transformation of the p.f. above reflects across x-oxis, H.T left 3
- 4. if the function $f(x) = (x-3)^2 + 5$ is transformed to $g(x) = (x+5)^2 + 2$, what transformation took place? H.T 14ft 8 V.T apwn 3
- 5. Convert the domain/range: D:[-5, ∞) R: -10 < y \leq 20 D: $-5 \leq \chi \leq \infty$ R. (-10, 20)

Review: Domain and Range Worksheet

ACT Question of the Day

2. The monthly fees for single rooms at 5 colleges are \$370, \$310, \$380, \$340, and \$310, respectively. What is the mean of these monthly fees?

F. \$310

G. \$340

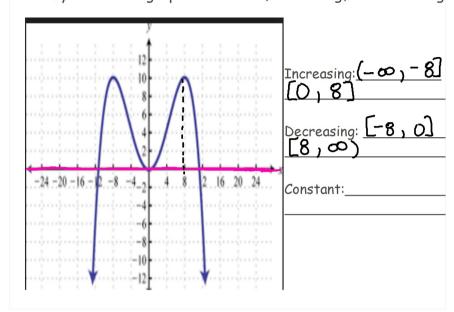
H. \$342

J. \$350

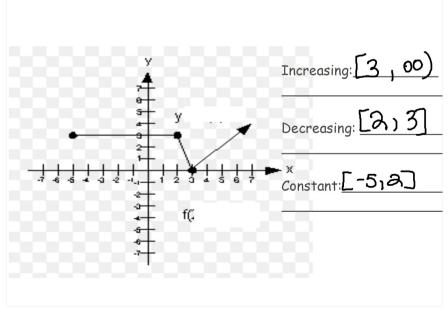
K. \$380

Unit 1: Functions
Increasing and Decreasing Intervals

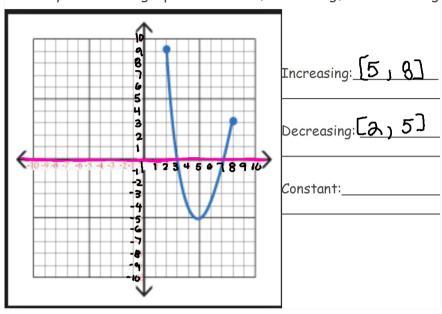
Identify where the graph is constant, increasing, or decreasing



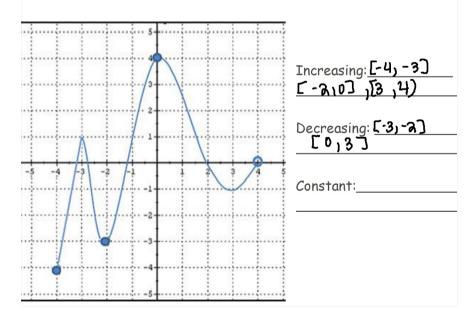
Identify where the graph is constant, increasing, or decreasing



Identify where the graph is constant, increasing, or decreasing



Identify where the graph is constant, increasing, or decreasing



Classwork

Black History Month began as "Negro History Week," which was created in 1926 by Carter G. Woodson, a noted African American historian, scholar, educator, and publisher. It became a month-long celebration in 1976. The month of February was chosen to coincide with the birthdays of Frederick Douglass and Abraham Lincoln.