Definition 1. *Define the function g by the formula $g(k) = -3|4k - 5| + 1$ with domain $(-\infty, 0]$.*

Exercise 1 *The graph of $g(k)$ is best described by which of the following?*

Multiple Choice:

- (a) *Line*
- (b) *Ray* ✓
- (c) *V-shaped*
- (d) *Parabola*
- (e) *Sideways Half-Parabola*

Exercise 2 *The graph of $g(k)$ includes what type of point?*

Multiple Choice:

- (a) *a highest point* ✓
- (b) *a lowest point*
- (c) *neither*

Exercise 3 *The graph of $g(k)$ opens up or down?*

Multiple Choice:

- (a) *up*
- (b) *down*
- (c) *neither* ✓

Exercise 4 *How many k-intercepts does the graph of $g(k)$ have?*

Multiple Choice:

(a) 0

(b) 1 ✓

(c) 2