

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

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

Multiple Choice:

- (a) a highest point ✓
 - (b) a lowest point
 - (c) neither
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Exercise 3 The graph of $g(k)$ opens up or down?

Multiple Choice:

- (a) up
 - (b) down ✓
 - (c) neither
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Exercise 4 Which domain number is associated with this extreme point? domain number is 5/4.

Exercise 5 *How many k -intercepts does the graph of $g(k)$ have?*

Multiple Choice:

- (a) 0
 - (b) 1
 - (c) 2 ✓
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