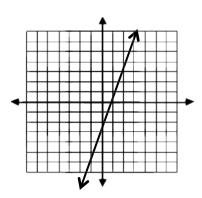
Given the two linear equations below, choose Yes or No to indicate whether the following statements are true.

Linear Equation A

$$y = -2x + 1$$

Linear Equation B



- A. The rate of change for Linear Equation B is greater than Linear Equation A.
-) Yes () No
- B. The *x*-intercept of both equations is an integer.
- Yes No
- C. Both equations have a *y*-intercept of (0, -2).
- Yes No

D. Both linear equations are functions.

Yes No

Scoring:

2 points: Selected A and D. (YNNY)

1 point: Selected A or D only. (YNNN or NNNY)

0 points: Any other combination.

Key and Distractor Analysis:

- A. Key. Rate of change for Equation B is 3 whereas Equation A is -2.
- B. Student may be confusing *x*-intercepts with *y*-intercepts. Both *x*-intercepts are fractions.
- C. Equation B's y-intercept is (0, -2). Equation A's y-intercept is (0, 1), its slope is -2.
- D. Key. Both equations have exactly one unique output for each input.

Functions 8.F

Define, evaluate, and compare functions.

2. Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.