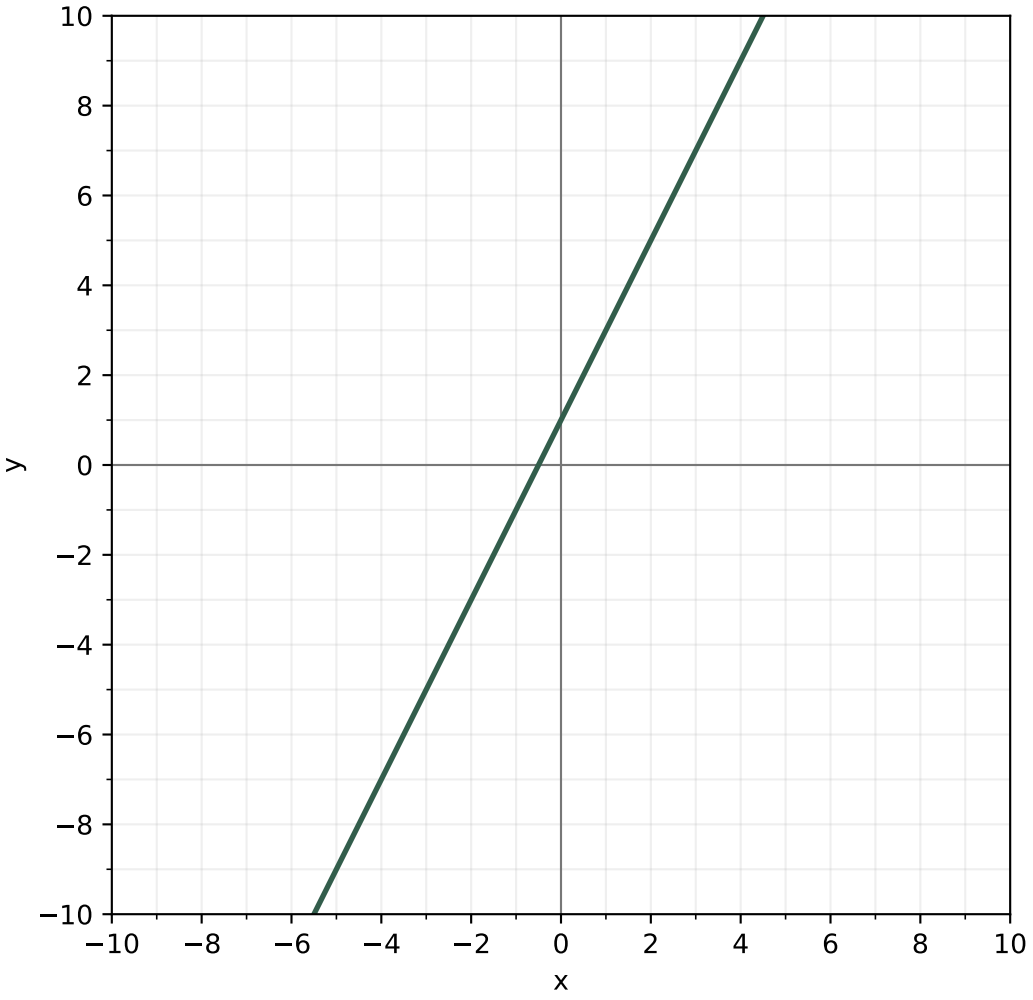
Comparing Linear Functions: Graphs, Tables and Equations

ANSWER / CASE 1

Function A is shown as a graph and table [[0, 1], [1, 3], [2, 5]]. Function B is y=1x+(3). Compare their slopes and initial values; which has the greater value at x=2?

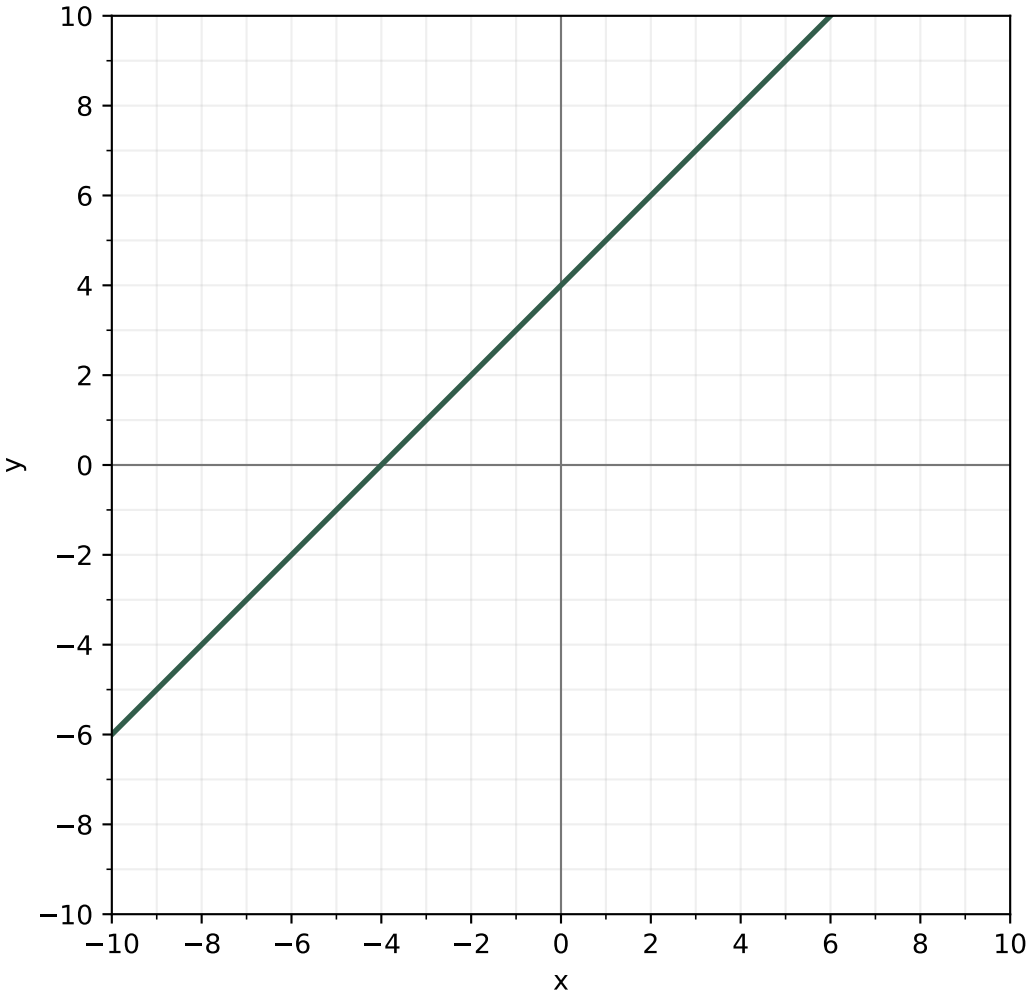


A: slope 2, initial value 1; B: slope 1, initial value 3. At x=2: A=5, B=5; equal.
1. Calculate rise/run between two table points; the value at x=0 is the initial value.
2. Compare signed slopes numerically. Substitute x=2 in each rule to compare outputs.

Comparing Linear Functions: Graphs, Tables and Equations

ANSWER / CASE 2

Function A is shown as a graph and table [[0, 4], [1, 5], [2, 6]]. Function B is y=2x+(1). Compare their slopes and initial values; which has the greater value at x=2?

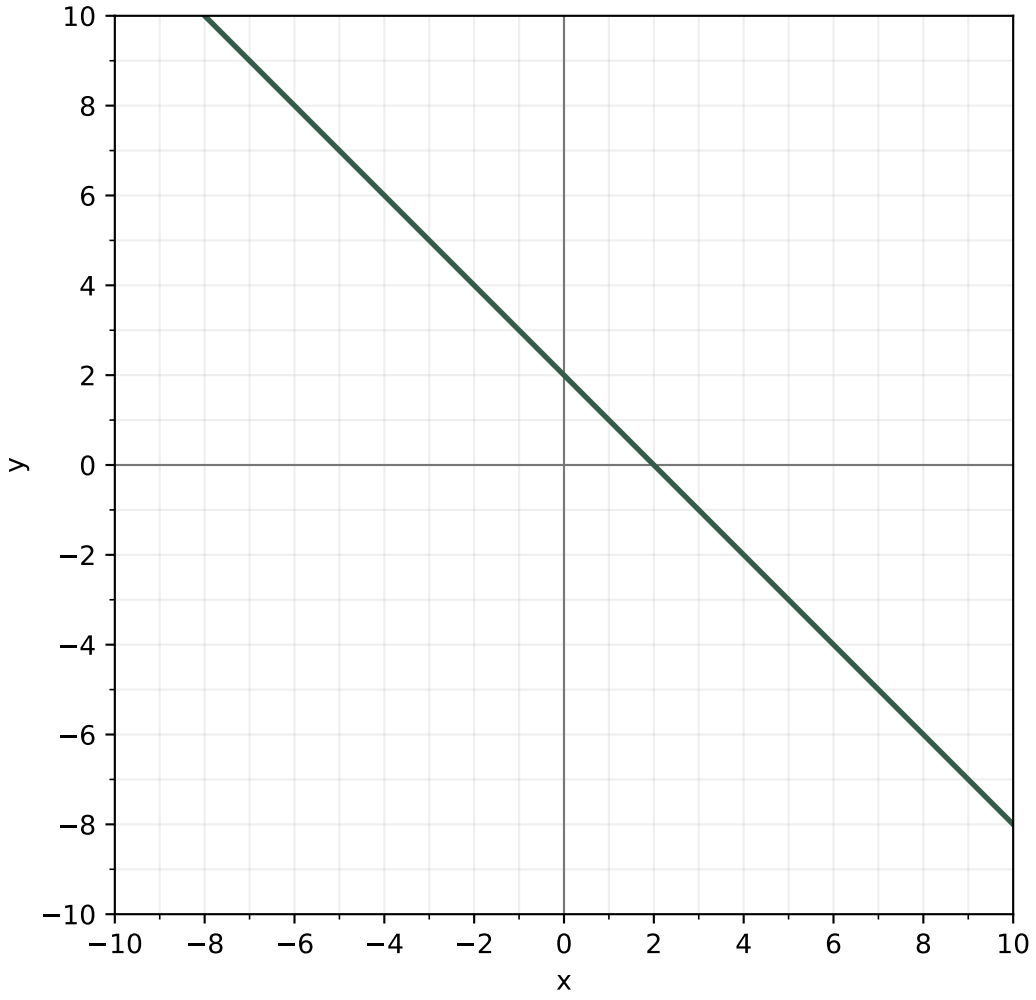


A: slope 1, initial value 4; B: slope 2, initial value 1. At x=2: A=6, B=5; A is greater.
1. Calculate rise/run between two table points; the value at x=0 is the initial value.
2. Compare signed slopes numerically. Substitute x=2 in each rule to compare outputs.

Comparing Linear Functions: Graphs, Tables and Equations

ANSWER / CASE 3

Function A is shown as a graph and table [[0, 2], [1, 1], [2, 0]]. Function B is y=-2x+(4). Compare their slopes and initial values; which has the greater value at x=2?

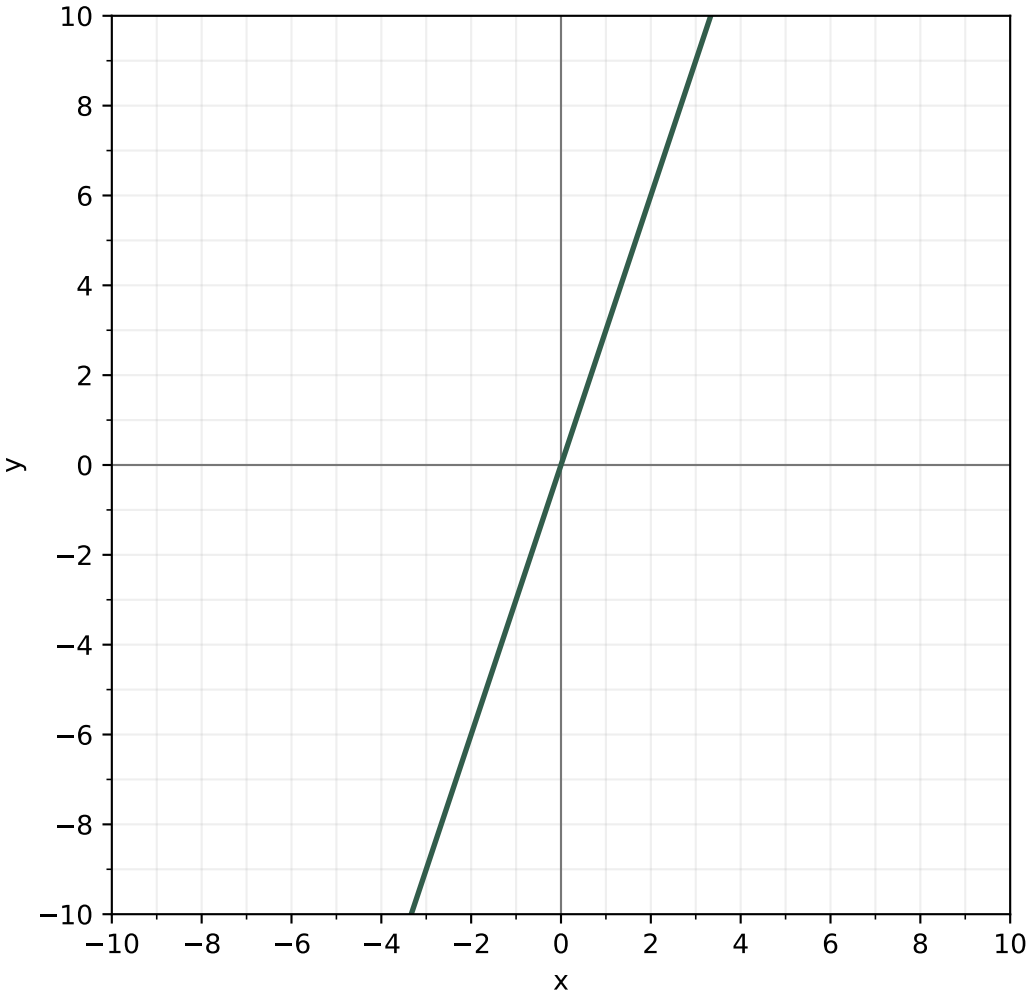


A: slope -1, initial value 2; B: slope -2, initial value 4. At x=2: A=0, B=0; equal.
1. Calculate rise/run between two table points; the value at x=0 is the initial value.
2. Compare signed slopes numerically. Substitute x=2 in each rule to compare outputs.

Comparing Linear Functions: Graphs, Tables and Equations

ANSWER / CASE 4

Function A is shown as a graph and table [[0, 0], [1, 3], [2, 6]]. Function B is y=3x+(2). Compare their slopes and initial values; which has the greater value at x=2?



A: slope 3, initial value 0; B: slope 3, initial value 2. At x=2: A=6, B=8; B is greater.
1. Calculate rise/run between two table points; the value at x=0 is the initial value.
2. Compare signed slopes numerically. Substitute x=2 in each rule to compare outputs.