

Question:

Suppose a fraction has a zero in the denominator, and a nonzero numerator.
What is the value of the fraction?

Solution:

it is not defined

Question:

Start at a point (x, y) on a line.
To get to a new point, move up 3 and to the right 4.
What is the slope of the line?

Solution:

Rise is 3; run is 4.

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{3}{4}$$

Question:

Start at a point (x, y) on a line.
To get to a new point, move down 2 and to the left 6.
What is the slope of the line?

Solution:

Rise is -2 ; run is -6 .

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{-2}{-6} = \frac{1}{3}$$

Question:

Start at a point (x, y) on a line.
To get to a new point, move straight up 5 units.
What is the slope of the line?

Solution:

no slope (vertical line)

Question:

Start at a point (x, y) on a line.
To get to a new point, move directly to the left 5 units.
What is the slope of the line?

Solution:

zero slope (horizontal line)

Question:

Suppose you are walking along a line, moving from left to right.
You are going uphill.
Then, the slope of the line is (circle one): positive negative

Solution:

positive