2016 Mathematics Standards of Learning

Algebra Readiness Formative Assessment

# 1A.6a

1. Use the numbers below to create two ordered pairs so that the slope passing through these two points is positive.

( \_\_\_\_ , \_\_\_\_ ) ( \_\_\_\_ , \_\_\_\_ )

-2 -3 -4 -6 -9 -11

1. Select two ordered pairs so the slope of the line passing through the two selected points is equal to zero.

(-1, 3) (-2, -4) (0, 1) (-3, 0) (4, 3) (5, -1) (-2, 1) (3, -2)

1. What is the slope of the line for the equation ?
   1. 4
   2. 3
   3. 
   4. 
2. The temperature outside an airplane is recorded as the airplane ascends. A graph of the temperature, d, in degrees Farenheit over time, m, in minutes displays coordinate points that are represented as (m,d) on the graph. The points (2, 40) and (14, -8) are included on the graph. Assuming that the temperature is changing at a constant rate, what is the rate of change in degrees per minute?
   1. - 4
   2. 
   3. 
   4. 
3. What is the slope of the line graphed?

graph of a line


* 1. 5
  2. 
  3. 
  4. 

1. For the line , the slope is—
   1. positive
   2. negative
   3. zero
   4. undefined

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