Algebra 1 SOL Released Questions:
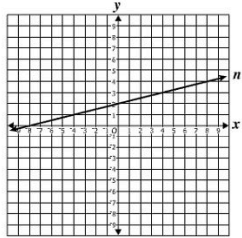
Slope

What is the slope of the line represented by $\frac{1}{8}x + 3y = 3$?

A $\frac{-1}{8}$

B $\frac{-1}{24}$

C $\frac{1}{24}$

D $\frac{1}{8}$

The graph of line n is shown.

Which number is closest in value to the slope of line n ?

A $^-4$

B $\frac{-1}{4}$

C $\frac{1}{4}$

D 4

Direction: Type your answer in the box.

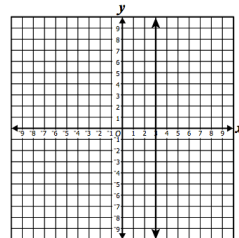What is the slope of the line represented by this equation?

$$3x + 5y = {}^-7$$

Slope = [ ]

Which describes the graph of $g(x) = {}^-3x + 5$?

F   A line with a slope of $^-3$ and a y-intercept of $^-5$.
G   A line with a slope of $^-3$ and a y-intercept of 5.
H   A line with a slope of 3 and a y-intercept of $^-5$.
J   A line with a slope of 3 and a y-intercept of 5.

What is *most* likely the slope of the line graphed on the coordinate plane?

A $^-3$
B   0
C   3
D   Undefined

A school play cost $1,200 to produce. If tickets sold for $5 each, the profit, p, made on the play by selling x tickets is given by the equation shown.

$$p = 5x - 1,200$$

What is the slope of the line representing this equation?

F $^-1,200$
G $^-240$
H 1
J 5

What is the slope of the line that passes through $(^-2, 5)$ and $(3, 9)$?

F $\dfrac{^-5}{4}$

G $\dfrac{^-4}{5}$

H $\dfrac{4}{5}$

J $\dfrac{5}{4}$

Which is an equation for the line that contains $(1, 2)$ and has a slope of 4 ?

F $y = 2x - 4$
G $y = ^-2x + 4$
H $y = 4x - 2$
J $y = ^-4x + 2$

What is the slope of the line represented by the following equation?

$$y = 2x - 1$$

A $^-1$

B $\dfrac{1}{2}$

C 1

D 2

Candice plotted the points $(2, 15)$ and $(0, ^-1)$ and then drew a line through these two points. What is the slope of the line she drew?

F $\dfrac{1}{8}$

G $\dfrac{1}{7}$

H 7

J 8

What is the slope of the line represented by the following equation?

$$4x - y + 3 = 0$$
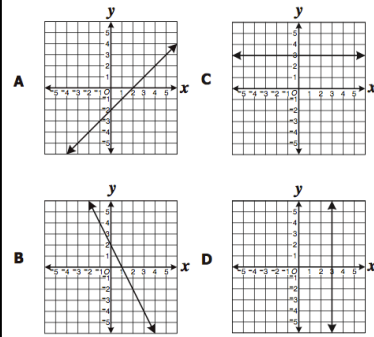
A $^-1$

B $\dfrac{3}{4}$

C $\dfrac{4}{3}$

D 4

Which is an equation of a line with a slope of 3 that passes through the origin?

A $x = 3$
B $y = 3$
C $x = 3y$
D $y = 3x$

2009

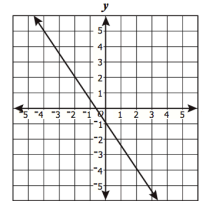Which is most likely the graph of a line with a positive slope?

A

C

B

D

2008

What is the slope of the line $y = \dfrac{^{-}1}{3}x - \dfrac{2}{3}$ **?**

F 3

G $\dfrac{^{-}1}{3}$

H $\dfrac{^{-}2}{3}$

J $^{-}3$

2008

Which is closest to the slope of the line graphed above?

A $\dfrac{^{-}3}{2}$

B $\dfrac{^{-}2}{3}$

C $\dfrac{2}{3}$

D $\dfrac{3}{2}$

2008

What is the slope of the line that passes through $(^{-}3, ^{-}5)$ and $(4, ^{-}2)$?

F 1
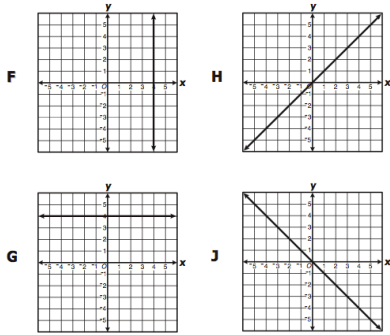
G $\dfrac{3}{7}$

H $\dfrac{^{-}3}{7}$

J $^{-}1$

2008

What is the slope of the line that passes through the points (5, 0) and (10, 0)?

F 0
G 1
H 5
J Undefined

2007

Which graph best represents a line with an undefined slope?

F

H

G

J

What is the slope of the line
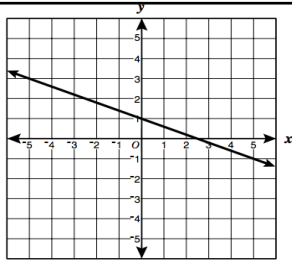
$$y = 4x - 2?$$

F 4

G 2

H $\dfrac{1}{4}$

J $^-2$

What is the apparent slope of the line graphed above?

A $\dfrac{5}{2}$

B $\dfrac{2}{5}$

C $\dfrac{^-2}{5}$

D $\dfrac{^-5}{2}$

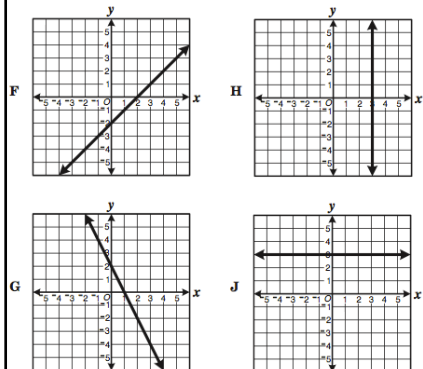**What is the slope of the line through (3, 2) and ($^-$1, $^-$4)?**

A 3

B $\dfrac{3}{2}$

C $\dfrac{2}{3}$

D $\dfrac{^-3}{2}$

Which of the following is most likely the graph of a line with a slope of zero?

F

H

G

J

What is the slope of the line through (1, 1) and (4, $^-$1)?

F $\dfrac{^-1}{5}$

G $\dfrac{^-2}{5}$

H $\dfrac{^-2}{3}$

J $\dfrac{^-3}{2}$

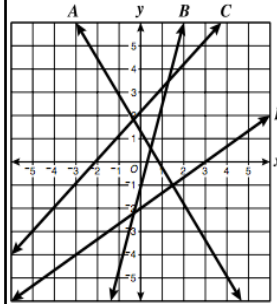**What is the slope of the line**
$3y = 4x + 5?$

A 4

B 2

C $\dfrac{5}{3}$

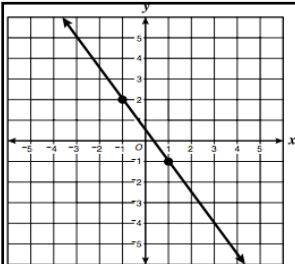D $\dfrac{4}{3}$

Which line on the graph below has a negative slope?

A *A*
B *B*
C *C*
D *D*

The line shown contains (⁻1, 2) and (1, ⁻1). What is the slope of the line?

F $\dfrac{3}{2}$
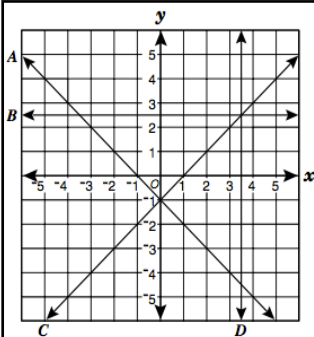
G $\dfrac{2}{3}$

H $\dfrac{-2}{3}$

J $\dfrac{-3}{2}$

What is the slope of the line

$$y = 2x - 3?$$

A ⁻3

B $\dfrac{-3}{2}$

C $\dfrac{-2}{3}$

D 2

Which line has a negative slope?

A *A*
B *B*
C *C*
D *D*

What is the slope of the graph of

$$y = 6x - 1?$$

A ⁻6

B ⁻1

C $\dfrac{1}{6}$

D 6

What is the slope of the line that goes through

$$(-3, 2) \text{ and } (3, 2)?$$

F Undefined

G 0

H $\dfrac{2}{3}$

J $\dfrac{3}{2}$

What is the slope of the line that contains points $(2, 3)$ and $(2, -4)$?

A Undefined

B 0

C $\dfrac{-1}{4}$

D -4

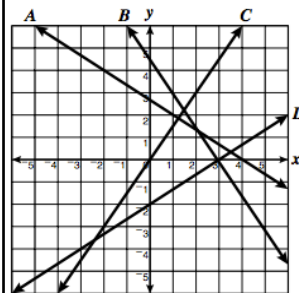**What is the slope of the line represented by the equation $-2y = x - 1$?**

A -2

B $\dfrac{-1}{2}$

C $\dfrac{1}{2}$

D 2

Which line on the grid appears to have slope $\dfrac{2}{3}$?

F A

G B

H C

J D

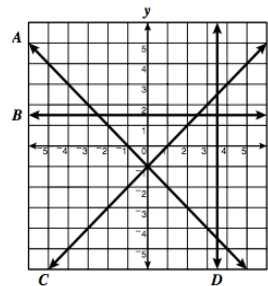**What is the slope of the line that contains $(4, -1)$ and $(3, 3)$?**

F -4

G $\dfrac{-1}{2}$

H $\dfrac{-1}{4}$

J 2

Which line on the graph has an undefined slope?

A A

B B

C C

D D

What is the slope of the line
$3x + y = 5$?

A 3

B ⁻3

C $\frac{1}{3}$

D $\frac{-1}{3}$

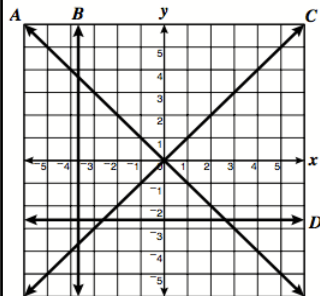What is the slope of the line
represented by $2x - 3y = 4$?

F $\frac{3}{2}$

G $\frac{2}{3}$

H $\frac{-2}{3}$

J ⁻2

Which describes the slope of the line
that passes through (⁻7, 3) and
(8, 5)?

A Positive

B Negative

C Zero

D Undefined

Which line on the graph has undefined
slope?

F A

G B

H C

J D