

FMP 10 LG 12A (Formative Assessment)

Marking Teacher: _____

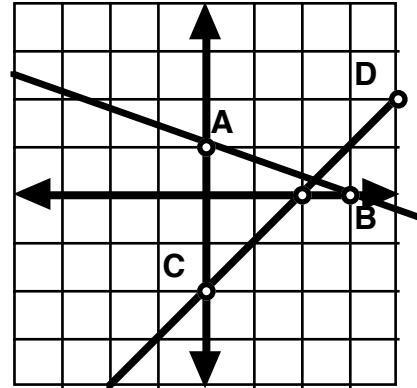
Name: _____

Student #: _____

1. Given the graph at the right find the following slopes:

a. slope of AB (m_{AB})

b. slope of CD (m_{CD})



2. Find the slope of the line that passes through the points C(-2, 6) & D(4, 2):

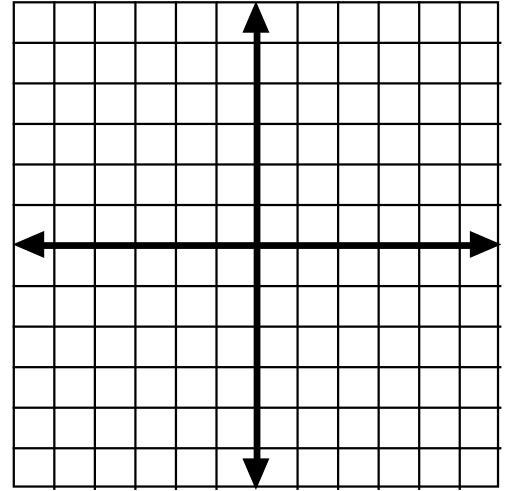
3. Find the slope of the line that has an x-intercept of -2 and a y-intercept of 3:

4. Given the following slopes identify which lines are parallel or perpendicular:

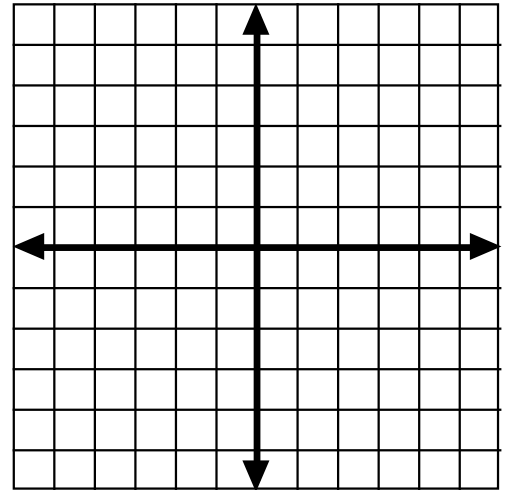
$$m_{AB} = \frac{5}{7}, \quad m_{CD} = \frac{-5}{7}, \quad m_{EF} = \frac{15}{21}, \quad m_{GH} = \frac{14}{-10}$$

5. Given a line passes through E(-1, -2) and F(2, 4):

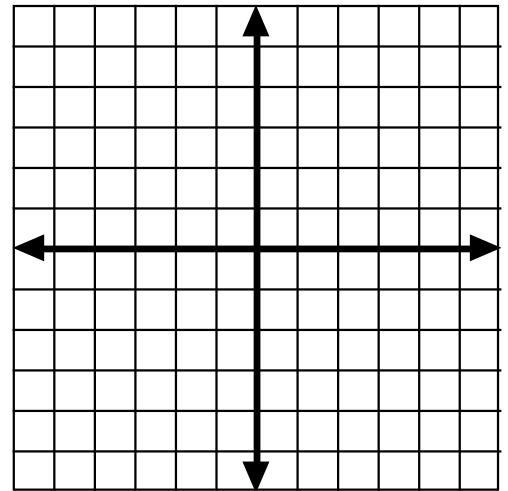
- a. find the coordinates of two points that lie on a line that is parallel to EF through the point G(3, 1). (Show your points)



- b. find the coordinates of two points that lie on a line that is perpendicular to EF through point E. (Show your points)



6. The vertices of a triangle have coordinates A(1, 6), B(2, 4) and C(4, 5). Is triangle ABC a right triangle? Use slopes to justify your answer. (Show your points)



FMP 10 LG 12B (Formative Assessment)

Marking Teacher: _____

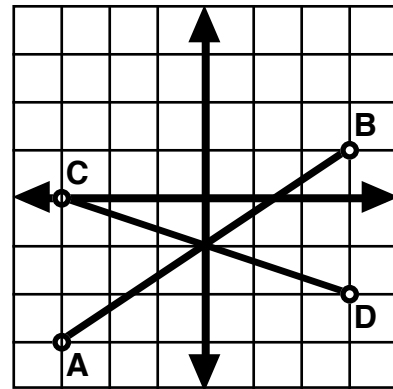
Name: _____

Student #: _____

1. Given the graph at the right find the following slopes:

a. slope of AB (m_{AB})

b. slope of CD (m_{CD})



2. Find the slope of the line that passes through the points $G(-4, 6)$ & $H(6, 4)$:

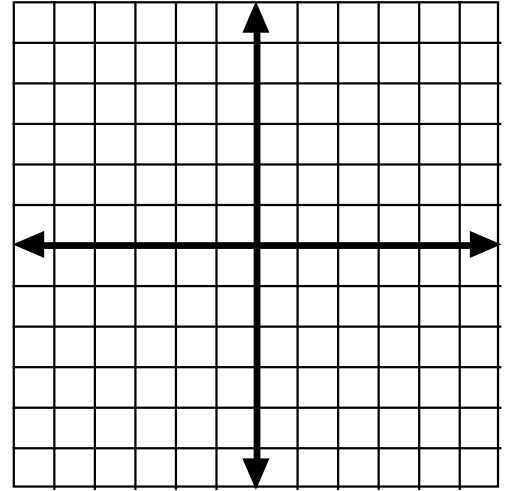
3. Find the slope of the line that has an x-intercept of 6 and a y-intercept of -4:

4. Given the following slopes identify which lines are parallel or perpendicular:

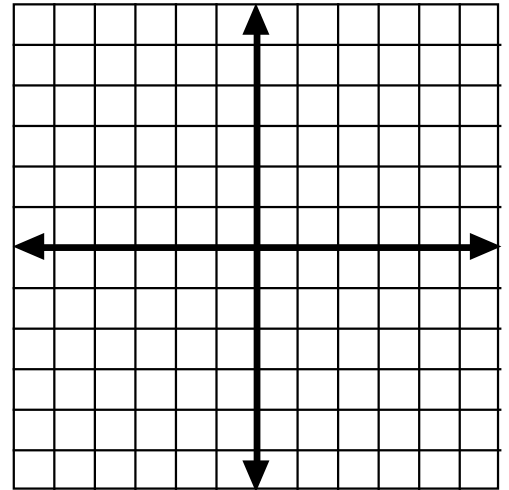
$$m_{AB} = \frac{3}{2}, \quad m_{CD} = \frac{-2}{3}, \quad m_{EF} = \frac{-6}{4}, \quad m_{GH} = \frac{15}{10}$$

5. Given a line passes through $E(-1, 0)$ and $F(3, 6)$:

- a. find the coordinates of two points that lie on a line that is parallel to EF through the point $G(2, 0)$. (Show your points)



- b. find the coordinates of two points that lie on a line that is perpendicular to EF through point E . (Show your points)



6. The vertices of a triangle have coordinates $A(0, 5)$, $B(2, 0)$ and $C(3, 4)$. Is triangle ABC a right triangle? Use slopes to justify your answer. (Show your points)

