FMP 10 LG 12A (Formative Assessment)
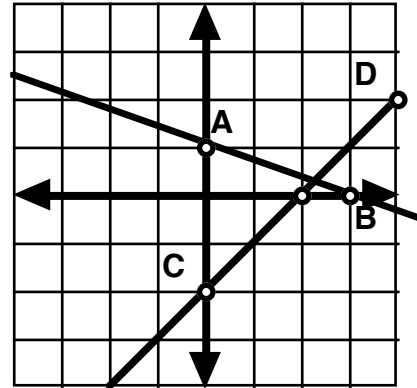
Marking Teacher: _____

Name: _____

Student #: _____

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

   a. slope of AB (mAB)

   b. slope of CD (mCD)

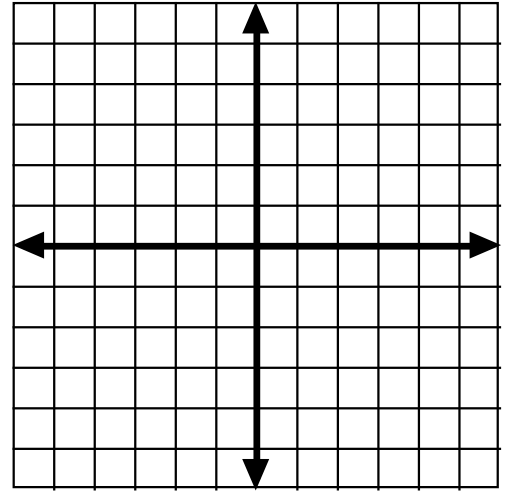2. Find the slope of the line that passes through the points C(-2, 6) & D(4, 2):

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

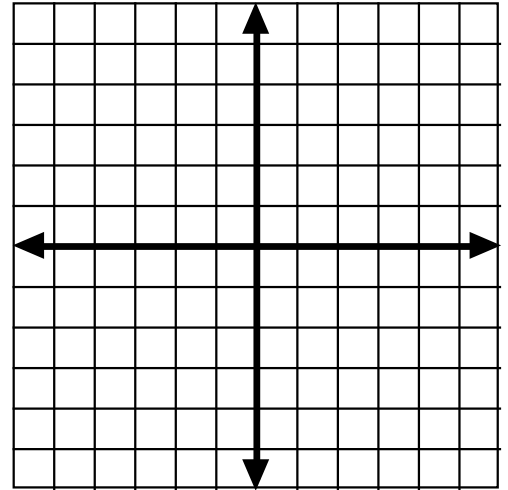4. Given the following slopes identify which lines are parallel or perpendicular:

   $mAB = \dfrac{5}{7}$, $mCD = \dfrac{-5}{7}$, $mEF = \dfrac{15}{21}$, $mGH = \dfrac{14}{-10}$

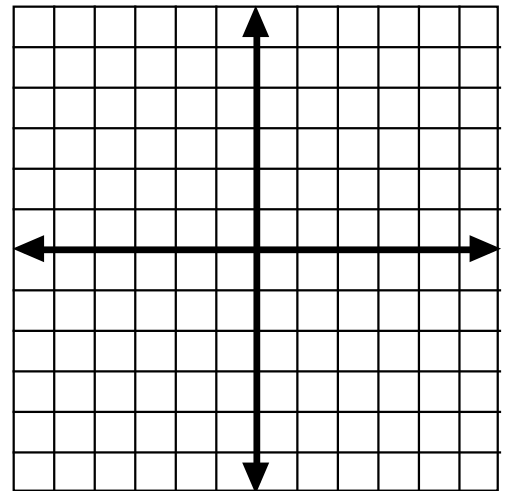**5.** Given a line passes through E(-1, -2) and F(2, 4):

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)

Directions: ☐ **See me about this**   ☐ **Move on to next guide**   ☐ **Review and redo**

FMP 10 LG 12B (Formative Assessment)

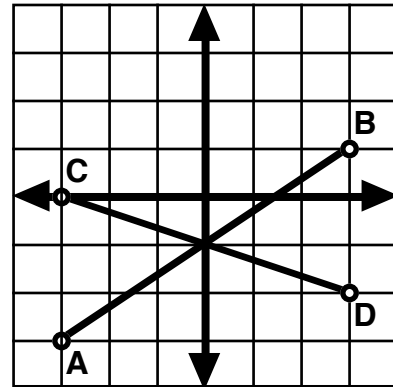**Marking Teacher:** _____   **Name:** _____

Student #: _____

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

    a.   slope of AB (mAB)

    b.   slope of CD (mCD)

2. Find the slope of the line that passes through the points G(-4, 6) & H(6, 4):
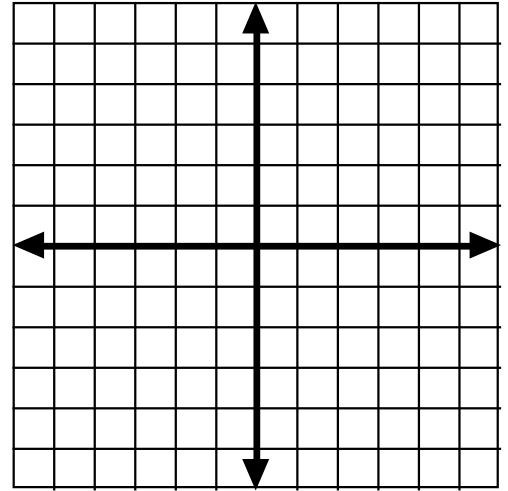
3. Find the slope of the line that has an x-intercept of 6 and a y-intercept of -4:

4. Given the following slopes identify which lines are parallel or perpendicular:
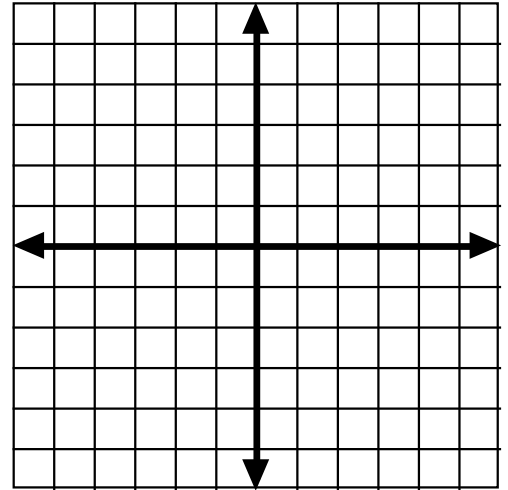
    $mAB = \dfrac{3}{2}$, $mCD = \dfrac{-2}{3}$, $mEF = \dfrac{-6}{4}$, $mGH = \dfrac{15}{10}$

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)

Directions: ☐ See me about this   ▦ Move on to next guide   ☐ Review and redo