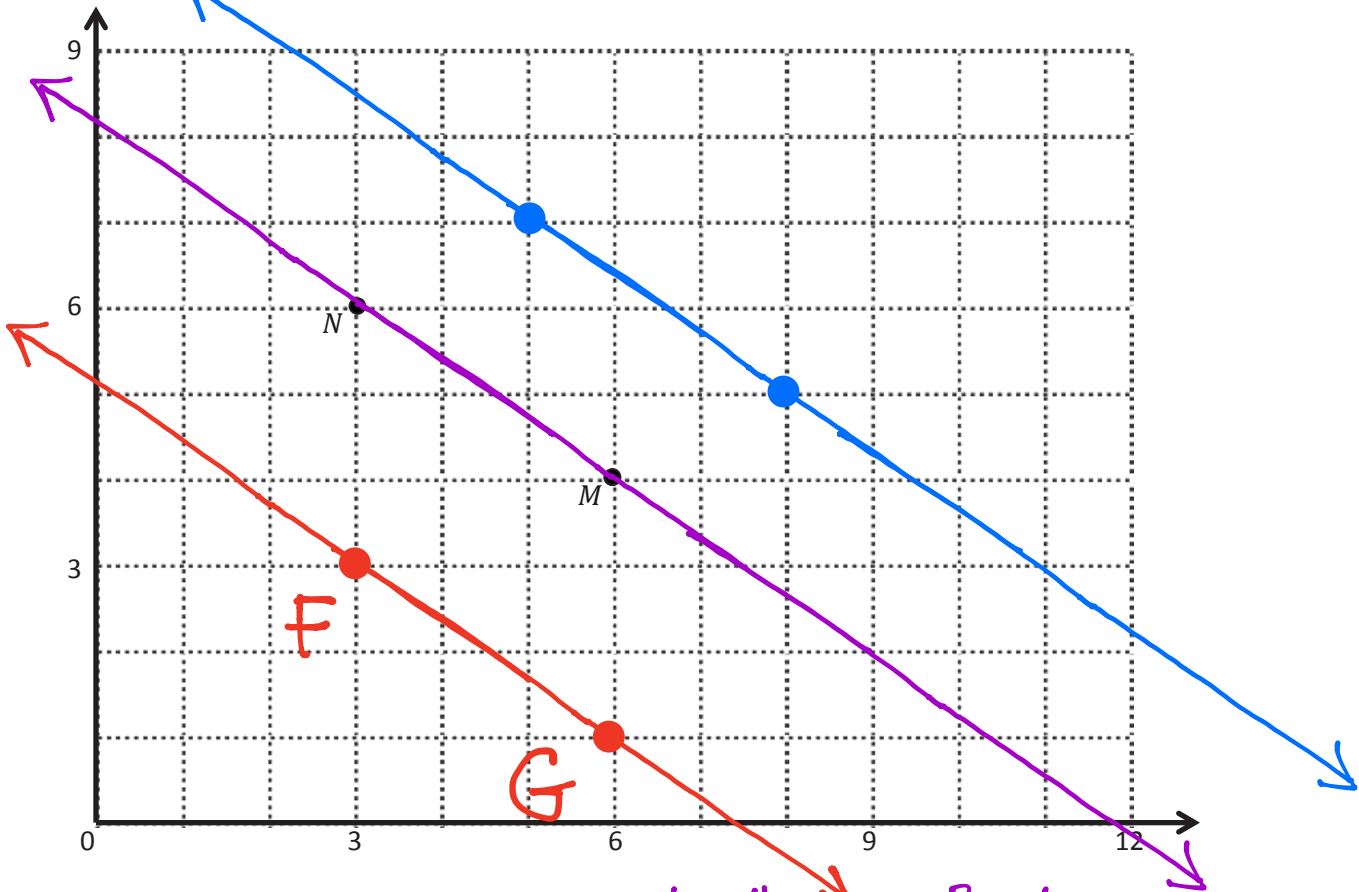


Name _____

Date _____

1. Use the coordinate plane below to complete the following tasks.



a. Identify the locations of M and N . $M: (\underline{6}, \underline{4})$ $N: (\underline{3}, \underline{6})$

b. Draw \overline{MN} .

c. Plot the following coordinate pairs on the plane.

$J: (5, 7)$ $K: (8, 5)$

d. Draw \overline{JK} .

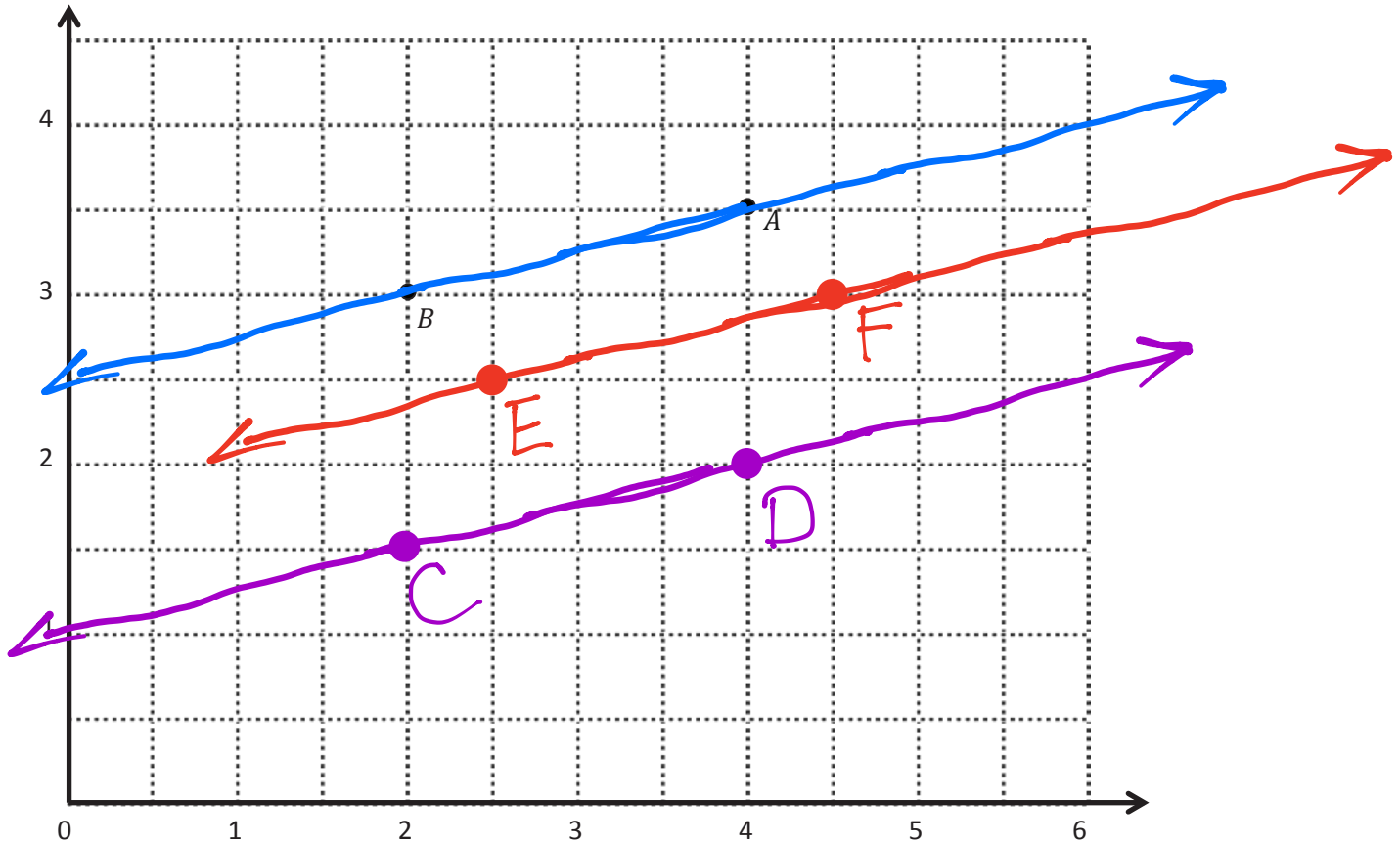
e. Circle the relationship between \overline{MN} and \overline{JK} . $\overline{MN} \perp \overline{JK}$ $\overline{MN} \parallel \overline{JK}$

f. Give the coordinates of a pair of points, F and G , such that $\overline{FG} \parallel \overline{MN}$.

(Answers will vary.) $F: (\underline{3}, \underline{3})$ $G: (\underline{6}, \underline{1})$

g. Draw \overline{FG} .

2. Use the coordinate plane below to complete the following tasks.



a. Identify the locations of A and B . A : (4, $3\frac{1}{2}$) B : (2, 3)

b. Draw \overleftrightarrow{AB} .

c. Generate coordinate pairs for C and D , such that $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$.

(Answers will vary.) C : (2, $1\frac{1}{2}$) D : (4, 2)

d. Draw \overleftrightarrow{CD} .

e. Explain the pattern you used when generating coordinate pairs for C and D . *I lowered A and B by 3 units.*

f. Give the coordinates of a point, F , such that $\overleftrightarrow{AB} \parallel \overleftrightarrow{EF}$.

E : ($2\frac{1}{2}$, $2\frac{1}{2}$) F : ($4\frac{1}{2}$, 3)

g. Explain how you chose the coordinates for F . *I noticed E was diagonal to B, so I made F diagonal to A.*
(Answers will vary.)