

3.7 Homework

Use these lines to answer questions 1 and 2. You may have to rearrange some of the lines in order to answer the questions.

A. $y = \frac{3}{4}x - 5$

F. $y = 4x + 1$

B. $y = -\frac{1}{2}x + 8$

G. $y = -\frac{3}{4}x - 5$

C. $4x - y = 8$

H. $3x - 4y = 4$

D. $y = \frac{4}{3}x + 2$

I. $y = -4x + 2$

E. $y = \frac{1}{4}x + 3$

J. $y = 2x - 1$

1. List the two pairs of lines that are parallel.
2. List the two pairs of lines that are perpendicular.
3. Write an equation for the line parallel to $\overleftrightarrow{KL}$ that contains point M.
 - a. $\overleftrightarrow{KL}$: $y = \frac{3}{5}x - 9$, M(4, -2)
 - b. $\overleftrightarrow{KL}$: $y = -3x + 11$, M(-6, 8)
4. Write an equation for the line perpendicular to $\overleftrightarrow{KL}$ that contains point M.
 - a. $\overleftrightarrow{KL}$: $y = \frac{3}{5}x - 9$, M(4, -2)
 - b. $\overleftrightarrow{KL}$: $y = -3x + 11$, M(-6, 8)