

Parallel



Perpendicular

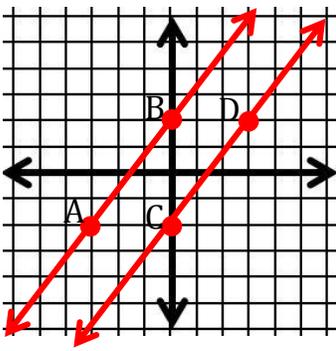


Parallel



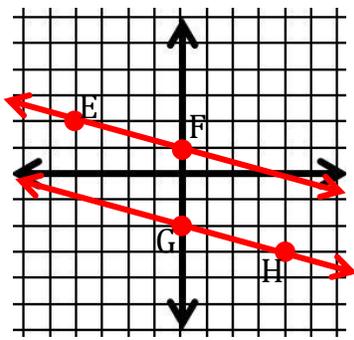
Perpendicular





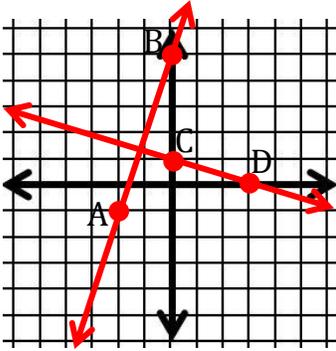
\overline{AB} _____

\overline{CD} _____



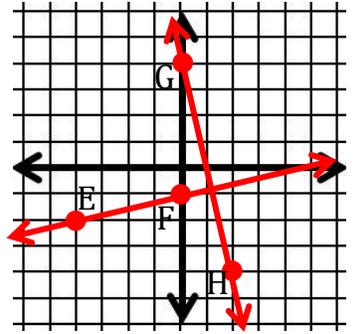
\overline{EF} _____

\overline{GH} _____



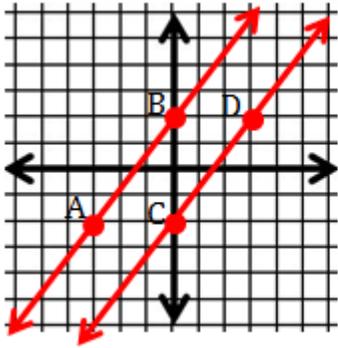
\overline{AB} _____

\overline{CD} _____



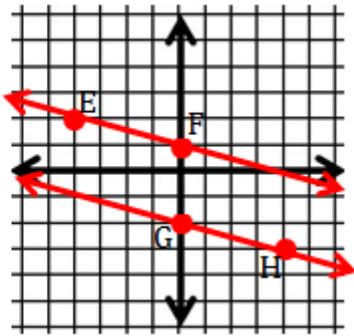
\overline{EF} _____

\overline{GH} _____



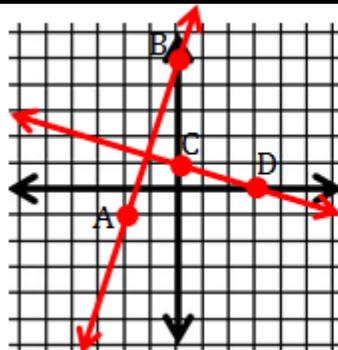
\overline{AB} _____

\overline{CD} _____



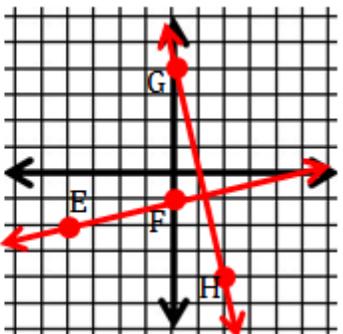
\overline{EF} _____

\overline{GH} _____



\overline{AB} _____

\overline{CD} _____



\overline{EF} _____

\overline{GH} _____

Answer Key!

Parallel

||

Perpendicular

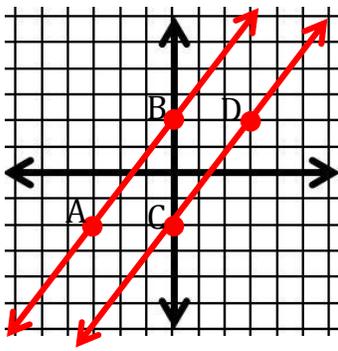
⊥

Parallel

||

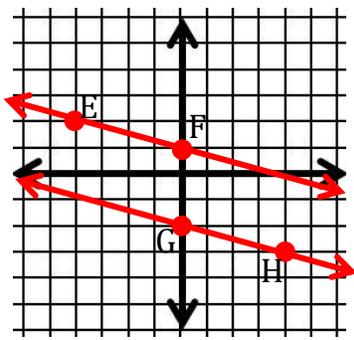
Perpendicular

⊥



$$\overline{AB} \quad y = \frac{4}{3}x + 2$$

$$\overline{CD} \quad y = \frac{4}{3}x - 2$$



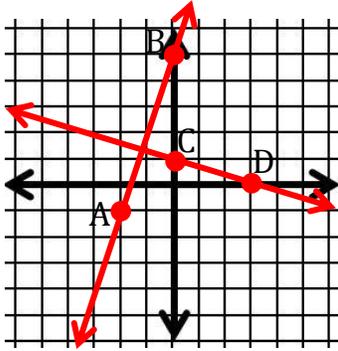
$$\overline{EF} \quad y = \frac{-1}{4}x + 1$$

$$\overline{GH} \quad y = \frac{-1}{4}x - 2$$

*If two lines in the same plane have the same slope, then they are parallel.

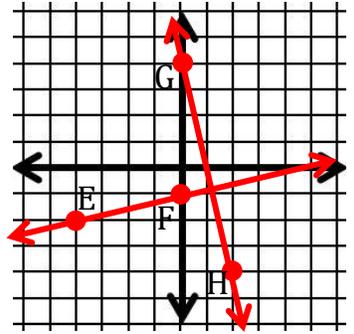
*If two lines in the same plane are parallel, then they have the same slope.

SAME SLOPE → PARALLEL



$$\overline{AB} \quad y = 3x + 5$$

$$\overline{CD} \quad y = \frac{-1}{3}x + 1$$



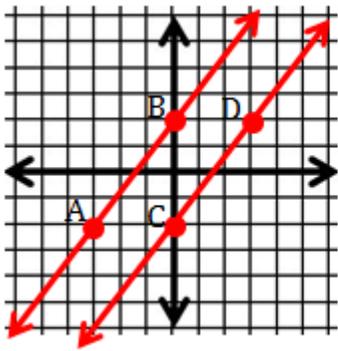
$$\overline{EF} \quad y = \frac{1}{4}x - 1$$

$$\overline{GH} \quad y = -4x + 4$$

*If two lines in the same plane have slopes that are negative reciprocals, then they are perpendicular.

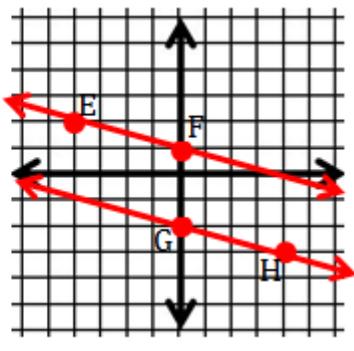
*If two lines are perpendicular, then their slopes are negative reciprocals.

NEGATIVE RECIPROCAL SLOPES → PERPENDICULAR



$$\overline{AB} \quad y = \frac{4}{3}x + 2$$

$$\overline{CD} \quad y = \frac{4}{3}x - 2$$



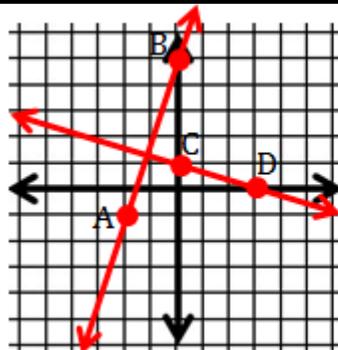
$$\overline{EF} \quad y = \frac{-1}{4}x + 1$$

$$\overline{GH} \quad y = \frac{-1}{4}x - 2$$

*If two lines in the same plane have the same slope, then they are parallel.

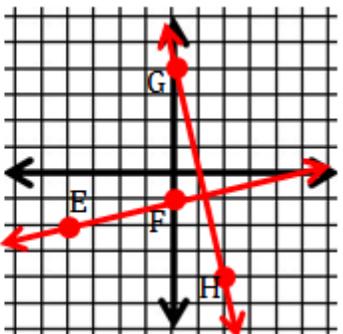
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SAME SLOPE → PARALLEL



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$$\overline{CD} \quad y = \frac{-1}{3}x + 1$$



$$\overline{EF} \quad y = \frac{1}{4}x - 1$$

$$\overline{GH} \quad y = -4x + 4$$

*If two lines in the same plane have slopes that are negative reciprocals, then they are perpendicular.

*If two lines are perpendicular, then their slopes are negative reciprocals.

NEGATIVE RECIPROCAL SLOPES → PERPENDICULAR

