

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

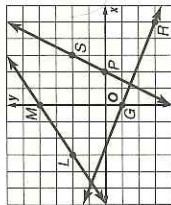
### 3-3 Practice (Average) Slopes of Lines

Determine the slope of the line that contains the given points.

- $B(-4, 4), R(0, 2)$   $-\frac{1}{2}$
- $I(-2, -9), P(2, 4)$   $\frac{13}{4}$

Find the slope of each line.

- $\overline{LM}$   $\frac{2}{3}$
- $\overline{GR}$   $-\frac{2}{5}$
- a line perpendicular to  $\overline{GR}$   $-\frac{1}{2}$
- a line perpendicular to  $\overline{PS}$   $-\frac{2}{5}$

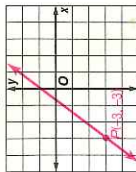
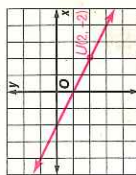


Determine whether  $\overline{KM}$  and  $\overline{ST}$  are parallel, perpendicular, or neither.

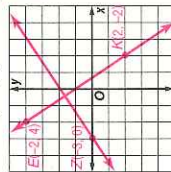
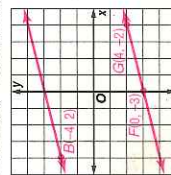
- $K(-1, -8), M(1, 6), S(-2, -6), T(2, 10)$  **neither**
- $K(-5, -2), M(5, 4), S(-3, 6), T(3, -4)$  **perpendicular**
- $K(-4, 10), M(2, -8), S(1, 2), T(4, -7)$  **parallel**
- $K(-3, -7), M(3, -9), S(0, 4), T(6, -5)$  **perpendicular**

Graph the line that satisfies each condition.

- slope =  $-\frac{1}{2}$ , contains  $U(2, -2)$
- slope =  $\frac{4}{3}$ , contains  $P(-3, -3)$



- contains  $B(-4, 2)$ , parallel to  $\overline{FG}$  with  $F(0, -3)$  and  $G(4, -2)$
- contains  $Z(-3, 0)$ , perpendicular to  $\overline{EK}$  with  $E(-2, 4)$  and  $K(2, -2)$



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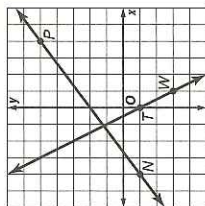
### 3-3 Skills Practice Slopes of Lines

Determine the slope of the line that contains the given points.

- $S(-1, 2), W(0, 4)$   $2$
- $G(-2, 5), H(1, -7)$   $-4$
- $C(0, 1), D(3, 3)$   $\frac{2}{3}$
- $J(-5, -2), K(5, -4)$   $-\frac{1}{5}$

Find the slope of each line.

- $\overline{NP}$   $\frac{3}{4}$
- $\overline{TW}$   $-2$
- a line perpendicular to  $\overline{TW}$   $\frac{4}{3}$
- a line perpendicular to  $\overline{NP}$   $-\frac{4}{3}$

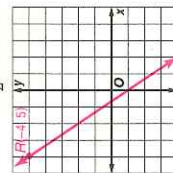
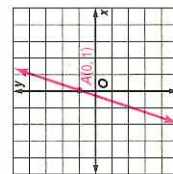


Determine whether  $\overline{AB}$  and  $\overline{MN}$  are parallel, perpendicular, or neither.

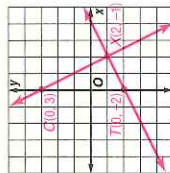
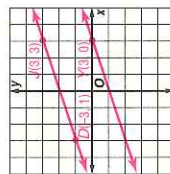
- $A(0, 3), B(5, -7), M(-6, 7), N(-2, -1)$  **neither**
- $A(-1, 4), B(2, -5), M(-3, 2), N(3, 0)$  **neither**
- $A(-2, -7), B(4, 2), M(-2, 0), N(2, 6)$  **parallel**
- $A(-4, -8), B(4, -6), M(-3, 5), N(-1, -3)$  **perpendicular**

Graph the line that satisfies each condition.

- slope = 3, contains  $A(0, 1)$
- slope =  $-\frac{3}{2}$ , contains  $R(-4, 5)$



- contains  $Y(3, 0)$ , parallel to  $\overline{DJ}$  with  $D(-3, 1)$  and  $J(3, 3)$
- contains  $T(0, -2)$ , perpendicular to  $\overline{CX}$  with  $C(0, 3)$  and  $X(2, -1)$



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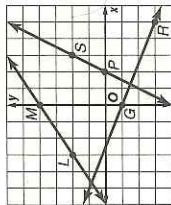
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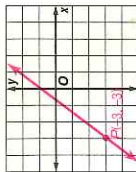
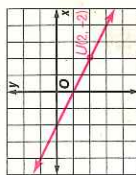


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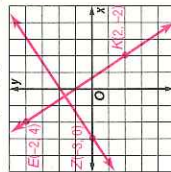
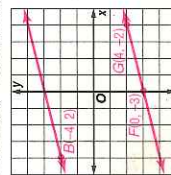
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- PROFITS** After Take Two began renting DVDs at their video store, business soared. Between 2000 and 2003, profits increased at an average rate of \$12,000 per year. Total profits in 2003 were \$46,000. If profits continue to increase at the same rate, what will the total profit be in 2009? **\$118,000**