

Formula → slope =

Remember:

Slopes of parallel lines must be _____ !!

Slopes of perpendicular lines are _____. Their product is = _____.

I. Given: A(0,1) B(3, -1) C(-2, -1) D(3, -4) E(0, 2) F(3, -5) G(5, -1) H(0, -2)

Find slope of

1. \overline{AB} _____ 2. \overline{BF} _____ 3. \overline{AG} _____ 4. \overline{AH} _____
 5. \overline{CE} _____ 6. \overline{BG} _____ 7. \overline{EH} _____

8. Name the pairs of lines which are parallel _____

9. Name the pairs of lines which are perpendicular _____

10. Which lines are vertical? _____ 11. Which lines are horizontal? _____

12. Which lines "slope up" ? _____ 13. Which lines "slope down" ? _____

14. Which lines have zero slope? _____ 15. Which lines have undefined slope? _____

II. Given: line $l \parallel \overleftrightarrow{AB}$

1. line l has slope -4, \overleftrightarrow{AB} Has slope = _____
 2. line l has slope -1/3, A(3,5) B(6, _____)
 3. line l has slope 2, A(4, _____) B(8, 5)
 4. line l has slope -3, A(_____, 4) B(6, -2)

III. Given: line $l \perp \overleftrightarrow{AB}$

1. line l has slope -4, \overleftrightarrow{AB} Has slope = _____
 2. line l has slope -1/3, A(3,5) B(6, _____)
 3. line l has slope 2, A(4, _____) B(8, 5)
 4. line l has slope -3, A(_____, 4) B(6, -2)
 5. line l has slope 2/3, \overleftrightarrow{AB} Has slope = _____
 6. line l has slope -4/5, \overleftrightarrow{AB} Has slope = _____

IV. Given: line l and point A. Follow the directions and find point B. Show the graph of both lines.

1. Given: line $l \parallel \overleftrightarrow{AB}$ B(_____, _____) 2. Given: line $l \perp \overleftrightarrow{AB}$ B(_____, _____) 3. Given: line $l \perp \overleftrightarrow{AB}$ B(_____, _____)

Slopes: line l : _____ \overleftrightarrow{AB} : _____ Slopes: line l : _____ \overleftrightarrow{AB} : _____ Slopes: line l : _____ \overleftrightarrow{AB} : _____

