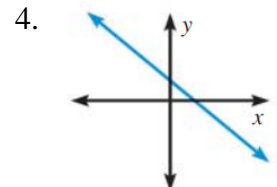
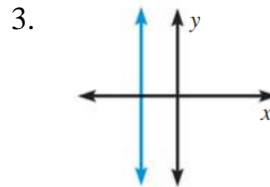
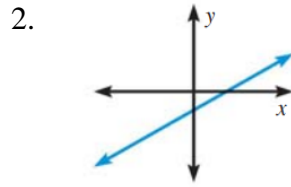
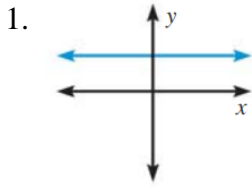


Describe the slopes of the given lines (*positive, negative, zero, no slope/undefined*)



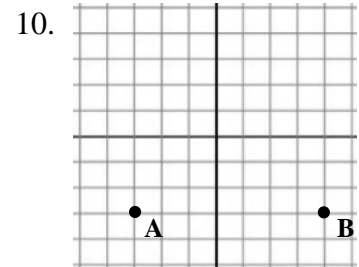
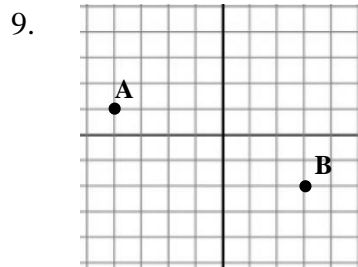
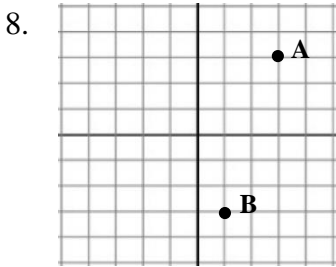
Find the slope of the line that passes through the points. **Show your work.**

5. (3, 5) and (5, 6)

6. (-5, -1) and (3, -1)

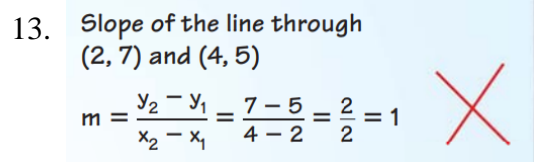
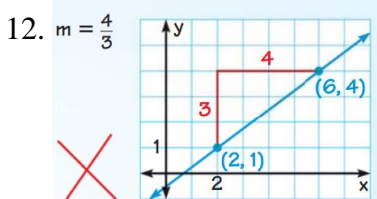
7. (2, 1) and (0, 6)

Find the slope of the line that passes through the points.



11. What happens when you apply the slope formula to a horizontal line? What happens when you apply it to a vertical line?

Describe and correct the error in finding the slope of the line.



Tell whether the lines through the given points are parallel, perpendicular or neither. **Justify your answer.**

14. Line 1: (1, 0) and (7, 4)
Line 2: (7, 0) and (3, 6)

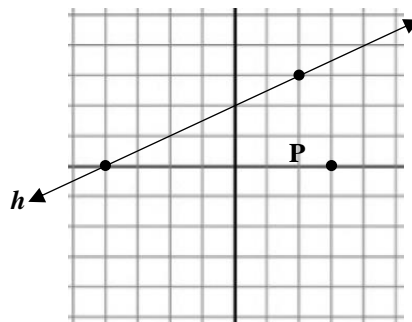
15. Line 1: (-3, 1) and (-7, -2)
Line 2: (2, -1) and (8, 4)

Find the slope of the line n **parallel** to line h and passing through point P. Then graph line n .

16.

Slope of $h =$ _____

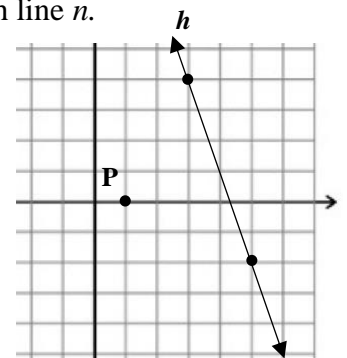
Slope of $n =$ _____



17.

Slope of $h =$ _____

Slope of $n =$ _____

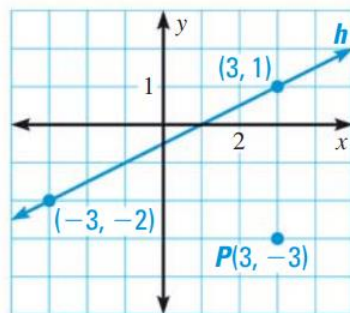


Find the slope of the line n **perpendicular** to line h and passing through point P. Then graph line n .

18.

Slope of $h =$ _____

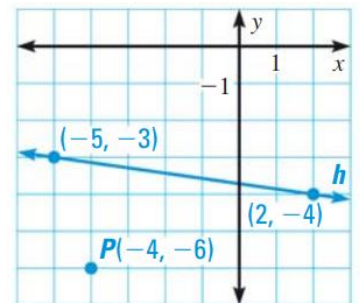
Slope of $n =$ _____



19.

Slope of $h =$ _____

Slope of $n =$ _____



Graph a line with the given description. **Show your work when finding slope.**

20. Through (0, 2) and **parallel** to the line through (-2, 4) and (-5, 1)

21. Through (1, 3) and **perpendicular** to the line through (-1, -1) and (2, 0)

