

Math Quiz -5.3 Parallel/Perpendicular & Inequalities (8th) Name: _____

Find the slope of each line. Then write whether the lines listed below are parallel to each other or perpendicular to each other

1a. line A : $y = (7/3)x - 11$
Slope =

1b. line B : $3x + 7y = 14$
Slope =

1c. Perpendicular or Parallel?

2a. line A : (2,4) and (7, -8)
Slope =

2b. line B : (-4, -11) and (1, -23)
Slope =

2c. Perpendicular or Parallel?

Write an equation in **slope intercept form** for the line specified

7. Parallel to $3x + 2y = 8$
with a y-intercept of -6

8. Perpendicular to $3x + y = -7$
and passing through (1,8)

Write whether the line of this inequality would be solid or dashed.

9. $x + y < 2$

10. $-9 + 3x < 0$

11. $6x + 3y \leq 5$