

SECTION 4.3: WRITING EQUATIONS OF PARALLEL AND PERPENDICULAR LINES

Homework: _____

Learning Targets:

- 4d. Understanding of how lines are related when given a graph
- 4e. Understanding how lines are related when given two points
- 4f. Writing linear equations for parallel and perpendicular lines

Parallel Lines: Lines that _____. The slopes of parallel lines are _____.

Perpendicular Lines: Lines that _____. The slopes of perpendicular lines are _____.

**♪♪ Parallel slopes stay the same,
Perpendicular flip and change. ♪♪**

Determine if lines are parallel, perpendicular, or not related.

Line a: (2, 5), (-2, 7)

Line b: (0, 4), (1, 6)

Line a: $y = \frac{1}{2}x + 5$

Line b: $-x + 2y = -3$