

Worksheet 5

Section 1.10

Problem 1. Find the equation of the line which passes through the point $(-3, 2)$ that is perpendicular to the line $x + 2y = 14$.

Problem 2. Find the equation of the line with y -intercept 6 that is parallel to the line $2x + 3y + 4 = 0$.

Problem 3. Determine whether the following two lines are parallel, perpendicular, or neither.

$$2x - 3y = 10 \quad \text{and} \quad 3y - 2x - 7 = 0.$$