

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra II  
Homework 1

**Problem 1.** Find the equation of the line passing through the point  $(1, 1)$  and perpendicular to the line  $2x + 3y = 5$ .

**Problem 2.** Find the equation of the line passing through the point  $(2, 3)$  and perpendicular to the line  $y = -2x + 3$ .

**Problem 3.** Find the equation of the line passing through the point  $(3, 4)$  and perpendicular to the line  $7x - 2y = 1$ .

**Problem 4.** Find the equation of the line passing through the points  $(2, 1)$  and  $(-1, 3)$ .