

Example 4: Determine whether the lines are parallel, perpendicular, or neither.

Example 5:

a. Find the slope of a line parallel to the following line.

$$f(x) = 2x + 2$$

b. Find the slope of a line perpendicular to the following line.

$$f(x) = 2x + 6$$

c. Find the slope of a line parallel to the line $7x - 2y = 6$.

d. Find the slope of a line perpendicular to the line $5x - 3y = 6$.