Section 2.2B: Slope of a line

#35 – 46:

- a) Find the slope of the given line
- b) Find the slope of all lines parallel to the given line
- c) Find the slope of all lines perpendicular to the given line.

35) $y = \frac{-3}{5}x + 2$	36) $y = \frac{-2}{7}x + 6$
37) $y = 3x - 2$	38) $y = 2x - 3$
39) $y = \frac{2}{9}x - 4$	40) $y = \frac{7}{5}x - 1$
41) $y = -6x + 5$	42) $y = -4x + 8$
43) $x = 2$	44) $x = -5$
45) $y = 4$	46) <i>y</i> = 1

47 – 52:Given below are descriptions of two lines.Find the slope of Line 1:Find the slope of Line 2:Are the lines parallel, perpendicular or neither?

- 47) Line 1: Goes through (6, -3) and (5,9)
- 48) Line 1: Goes through (1, -2) and (7,9)
- 49) Line 1: Goes through (8,2) and (-6,3)
- 50) Line 1: Goes through (4, -2) and (3, -8)
- 51) Line 1: Goes through (2, -2) and (3, 1)
- 52) Line 1: Goes through (7, -14) and (-2, 5)

- Line 2: Goes through (17,18) and (5,17)
- Line 2: Goes through (6,8) and (17,2)
- Line 2: Goes through (-5,9) and (9,8)
- Line 2: Goes through (6,6) and (9,24)
- Line 2: Goes through (10,5) and (9,8)
- Line 2: Goes through (0,5) and (9,24)