Sec. 3.4: Horizontal, Vertical, and Oblique Lines

**1.** Does each equation describe a vertical, a horizontal, or an oblique line?
Describe each vertical or horizontal line.

**a)** *y* = 4 **b)** 2*x* + 5 = 7

**c)** 2*x* – *y* = 6 **d)** 3*y* + 9 = 0

**2.** Which equation below describes each graph?

 **a) b)**

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 **i)** *x* = 2 **ii)** *x* = –2

 **iii)** *y* = 2 **iv)** *y* = –2

**3.** The sum of two numbers is 8. Let *x* and *y* represent the two numbers.

**a)** Create a table for 5 different values of *x*.

**b)** Graph the data. Should you join the points?

**c)** Write an equation that relates *x* and *y*.

**4.** On the back, graph each line. Show your work.

**a)** *x* = 4 **b)** 2*y* = 6

**c)** *y* – 2 = 3 **d)** 2*x* + 3 = 8

**5.** **a)** Graph these equations on the same grid.

 *x* + *y* = 6 *y* = 1 *x* – *y* = –6

**b)** Which shape is formed by these lines?

