Extra Practice 3

Master 4.22

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| Lesson 4.3: Another Form of the Equation for a Linear Relation  **1.** Does each equation describe a vertical, a horizontal, or an oblique (angled) 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)**  u04_m22-t01  **u04_m22-t02**  **i)** *x* = 2 **ii)** *x* = –2  **iii)** *y* = 2 **iv)** *y* = –2   |  |  | | --- | --- | | x | y | |  |  | |  |  | |  |  | |  |  | |  |  |   **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.** Graph each line. Explain your work.  **a)** *x* = 4 **b)** 2*y* = 6  **c)** *y* – 2 = –6 **d)** 2*x* + 3 = 8  **5.** For each equation below:   * Make a table for the given values of *x*. * Graph the equation.   **a)** 3*x* + *y* = 3; for *x* = –2, 0, 2  **b)** *x* – 2*y* = 8; for *x* = –2, 0, 2 |