Functions Mixed Review: Practice A

1. On the line under each equation, write "linear" or "nonlinear."

a. $y = 5x + 8$ b) $x + 3y^2 = 4$ c) $y^2 + xy = 84$ d) $2 = x + 4y$

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2. On the line under each equation, write "linear" or "nonlinear."

a. $x + y = 17$ b) $\dfrac{3}{2}x + y = 4$ c) $\dfrac{4}{y} - \dfrac{2}{x} = 6$ d) $y = x + 1$

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3. A line is represented by the equation y = 5x + 2.

What is the x-intercept?
- a.   2
- b.   -2
- c. $\dfrac{2}{5}$
- d. $-\dfrac{2}{5}$

What is the y-intercept?
- a.   2
- b.   -2
- c. $\dfrac{2}{5}$
- d. $-\dfrac{2}{5}$

4. A line is represented by the equation y = 2x - 4.

What is the x-intercept?
- a.   2
- b.   -2
- c.   4
- d. -4

What is the y-intercept?
- a.   2
- b.   -2
- c.   4
- d. -4

Directions: In the problems below write "function" or "not a function" on each line.

X	4	8	9	6
Y	4	4	4	4

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X	0	3	1	0
Y	7	-2	8	1

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{ (1, 3), (4, 3), (2, -3), (6, 5) }

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{ (4, 8), (3, -2), (-1, -7), (1, 0)}

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