Name _____ Date Answer Key

Identify Linear and Nonlinear Functions From Equations

Determine whether each equation shows a linear or nonlinear function.
Circle the correct answer.

1 $y = 3x - 1$ **Linear** Nonlinear	2 $2y + x^3 = 9$ Linear **Nonlinear**	3 $y = x^2 - 6$ Linear **Nonlinear**
4 $5x^2 - 3x + 1 = y$ Linear **Nonlinear**	5 $y + 4 = x$ **Linear** Nonlinear	6 $y = \frac{2}{3}x + 5$ **Linear** Nonlinear
7 $y - \frac{1}{2} = x^2$ Linear **Nonlinear**	8 $y = x^2$ Linear **Nonlinear**	9 $y = 8$ **Linear** Nonlinear
10 $5y = -x$ **Linear** Nonlinear	11 $-y + x^3 = 3x$ Linear **Nonlinear**	12 $x^2 - 4x = 6 + y$ Linear **Nonlinear**
13 $y = -10x$ **Linear** Nonlinear	14 $x^2 + 5 = y$ Linear **Nonlinear**	15 $y = \frac{1}{9}x - 4$ **Linear** Nonlinear