

Feature Analysis:

What are the characteristics of a Linear Equation?

Linear Equation	Non-Linear Equation
$3y + 8 = -5x$	$3y + 8 = -5x^2$
$2x + 5y = 0$	$(2x)(5y) = 0$
$\frac{1}{3}x - 2y = 14$	$\frac{1}{3x} - 2y = 14$
$(3)^2 x + 7y = -2$	$3x^2 + 7y = -2$
$4x + (-5y) = 14$	$(4x)(-5y) = 14$
$2x + 3y = 4$	$\frac{2}{x} + \frac{3}{y} = 5$
$x + y = 2$	$xy = 2$