## Linear or Non-Linear...You Decide

Directions: Identify the following equations as linear (L) or non-linear ( N ). If an equation is non-linear, describe why.
__N__ $12 x^{2} y=6$
$4(x+2)=5 x$

This equation is non-linear because the variable, $x$, has a power of 2 .
$\qquad$ $17 x-5=2 x-31$
$-3 x^{2}+5=\frac{1}{9}$
$-\frac{2}{3} z-9=9$
$-\frac{1}{x+2}+8=5$
$y=x^{2}+3 x+2$
$3 x+2 y=7$
$=y=\frac{2}{3} x-5$
_2xy $=14$

