Aug 28

Solve Linear Equations

What is a linear equation?

- Highest variable is x

Ex1 Solve: $-9x + 1 = -80$

$-1 \quad -1$

$\frac{-9x}{-9} = \frac{-81}{-9}$

$x = 9$

Ex2 Solve: $6(2x+3) = -18$

$12x + 18 = -18$

$-18 \quad -18$

$\frac{12x}{12} = \frac{-36}{12}$

$x = -3$

Ex3 Solve: $5(x-3) + 4x = 6$

$5x - 15 + 4x = 6$

$9x - 15 = 6$

$+15 \quad +15$

$\frac{9x}{9} = \frac{21}{9}$

$x = 2.33$ or $x = \frac{7}{3}$

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Ex 4 Solve: $x+2=3(2x-3)$

$x+2=6x-9$

$-6x \quad -6x$

$-5x+2=-9$

$-2 \quad -2$

$\frac{-5x}{-5}=\frac{-11}{-5}$

$x=2.2$ or $x=\frac{11}{5}$

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