



Do You Remember How to Identify Linear Equations?

A linear equation in one variable is an equation that can be written in the form $ax + b = c$ Where $a, b,$ and c are real numbers and $a \neq 0$.

- (1) Is $3x + 2$ a linear equation?
- (2) Is $3x + 2 = 7$ a linear equation?
- (3) Is $2x - 8 = 5 - 3x$ a linear equation?
- (4) Is $\frac{3}{4}x - 5 = \frac{1}{2}$ a linear equation?
- (5) Is $\frac{2}{x} = 5$ a linear equation?
- (6) Is $2(x - 7) = -13$ a linear equation?
- (7) Is $x^{\frac{2}{3}} + 7 = -2$ a linear equation?
- (8) Is $x^2 - 3 = 4$ a linear equation?
- (9) Is $8 = x^{-3}$ a linear equation?
- (10) Is $\frac{x}{2} = -9$ a linear equation?
- (11) Is $\sqrt{x} = 8$ a linear equation?
- (12) Is $x = \sqrt{13}$ a linear equation?

Answers:

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|-----------------|----------------|-----------------|
| (1) <i>no</i> | (2) <i>yes</i> | (3) <i>yes</i> |
| (4) <i>yes</i> | (5) <i>no</i> | (6) <i>yes</i> |
| (7) <i>no</i> | (8) <i>no</i> | (9) <i>no</i> |
| (10) <i>yes</i> | (11) <i>no</i> | (12) <i>yes</i> |