Section 7.6 p. 361 Nov. 13

Solving Equations w/ Fractions & Decimals

1. $x + 0.2 = 0.8$ -0.2 -0.20

$x = 0.60$

3. $5 + 1.2 = 1.5$ -1.2 -1.2

$5 = 0.3$

19. $\frac{4}{1}\left(\frac{x}{4} = \frac{1}{2}\right)\frac{4}{1}$

$\frac{4x}{4} = \frac{4}{2}$

$x = 2$

22. $\frac{6}{1}\left(\frac{m}{6} = -\frac{1}{3}\right)\frac{6}{1}$

$\frac{6m}{6} = -\frac{6}{3}$

$m = -2$

25. $\frac{y}{2} = \frac{y}{3} - \frac{1}{1}$ (x3, x2, x6)

$3y = 2y - 6$ (-2y, -2y)

$y = -6$

L.S	R.S
$-2y$	$3y - 1$
$-2(-6)$	$3(-6) - 1$
$= -3$	$-2 - 1$
	$= -3$

9. $\frac{5n}{2} x_3 = \frac{4n}{3} x_2 - \frac{7}{6}$

$15n = 8n - 7$

$-8n \quad -8n$

$\frac{7n}{7} = \frac{-7}{7}$

$n = -1$

L.S. $\frac{5n}{2}$ | R.S. $\frac{4n}{3} - \frac{7}{6}$

$\frac{5(-1)}{2}$ | $\frac{4(-1)}{3} - \frac{7}{6}$

$-\frac{5}{2}$ | $-\frac{4}{3} - \frac{7}{6}$

x_2 | x_2

-5 | $-8 - 7$

$-15 = -15$

29. $\frac{n}{3} + \frac{2}{15} = \frac{n}{5} + \frac{4}{15}$

$\times 15 \quad \times 15 \quad \times 3 \quad \times 15$

$5n + 30 = 3n + 60$

$-3n \quad -3n$

$2n + 30 = 60$

$-30 \quad -30$

$\frac{2n}{2} = \frac{30}{2}$

$n = 15$

31. $\frac{4(3-y)}{5\times4} = \frac{5(-2-3y)}{4\times5}$

$+15y \qquad +15y$

$12-4y = -10-15y$

$-12 \qquad -12$

$12+11y = -10-12$

$\frac{11y}{11} = \frac{-22}{11}$

$y = -2$

35. $\frac{3(n+5)}{2\times3} - \frac{2n}{3\times2} = \frac{1\times6}{1\times6}$

$3n + 15 - 2n = 6$

$-15 \quad -15$

$n + 15 = 6 - 15$

$n = -9$

38. $\frac{1-x}{4} - \frac{x}{2} x^2 = \frac{7}{1} \times 4$ ✓

$1 - x - 2x = 28$

$1^{-1} - 3x = 28 - 1$

$\frac{-3x}{-3} = \frac{27}{-3}$

$x = -9$

Hwk.
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all
questions