Section 7.3

Nov. 5

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19. $\frac{x}{3} = 4 + 2$

$3\left(\frac{x}{3}\right) = \frac{6}{1}\left(\frac{3}{1}\right)$

$\frac{3x}{3} = \frac{18}{1}$

$x = 18$

L.S.

$\frac{x}{3}$

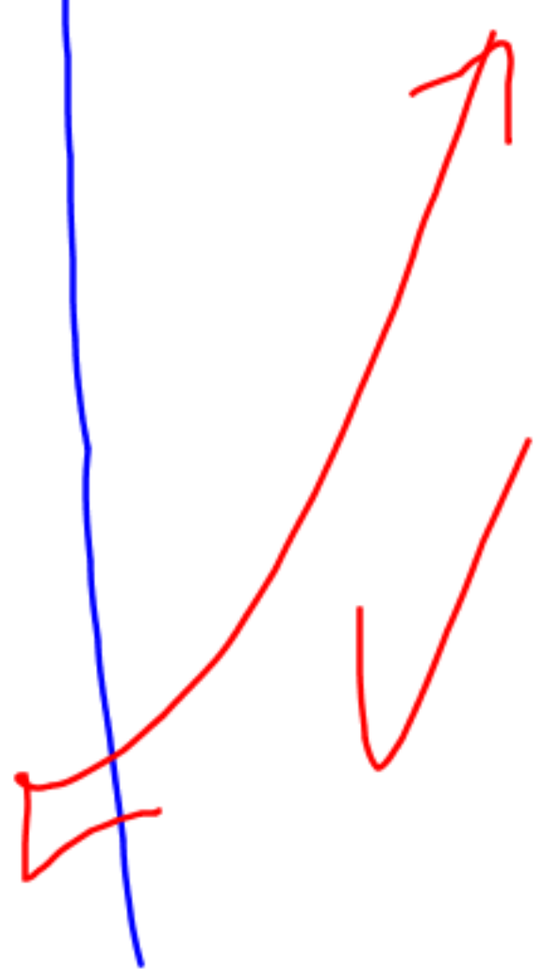
$= \frac{18}{3}$

$= 6$

R.S.

$4 + 2$

$= 6$



-4

23. $4 + \frac{x}{3} = -7 - 4$

$\frac{3}{1}\left(\frac{x}{3} = \frac{-11}{1}\right)\frac{3}{1}$

$3x = -33$

$x = -33$

L.S. $4 + \frac{x}{3}$

$4 + \frac{-33}{3}$

$= 4 - 11$

$= -7$

R.S. -7

25.

$$\frac{x}{4} - \frac{1}{4} = \frac{-3}{4}$$

$+1$ $+1$

$$x - 1 = -3$$

$$x = -2$$

L.S.

$$\frac{x}{4} - \frac{1}{4}$$

$$\frac{-2}{4} - \frac{1}{4}$$

$$-\frac{3}{4}$$

$$\frac{-3}{4}$$

R.S.

$$-\frac{3}{4}$$

26.

$$\frac{y}{2}\frac{x^2}{x_2} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{2y}{4} + \frac{1}{4} = \frac{3}{4}$$

$$2y + 1 = 3$$

$$\frac{2y}{2} = \frac{2}{2}$$

$$y = 1$$

L.S.

$$\frac{y}{2}\frac{x}{x_2} + \frac{1}{4}$$

$$\frac{1x1}{2x2} + \frac{1}{4}$$

$$\frac{1}{4} + \frac{1}{4}$$

$$\frac{2}{4}$$

R.S.

$$\frac{3}{4}$$

28. $2y - 5y - 5 = -13$

$+5 \quad +5$

$-3y - 5 = 13 + 5$

$\frac{-3y}{-3} = \frac{18}{-3}$

$y = -6$

L.S.

$2y - 5y - 5$

$2(-6) - 5(-6) - 5$

$= -12 + 30 - 5$

$= 18 - 5$

$= 13$

R.S. 13 ✓

33. $4+3t=-6-2$

-4 -4

-8

$\frac{3t}{3}=\frac{-12}{3}$

$t=-4$

L.S	R.S
$4+3t$	$-6-2$
$4+3(-4)$	$=-8$
$4+-12$	
$=-8$	

35. $5n + 3n - 2n = 17 - 2 + 9$

$\frac{6n}{6} = \frac{24}{6}$

$N = 4$

L.S	R.S
$5n+3n-2n$	$17-2+9$
$5(4)+3(4)-2(4)$	
$20+12-8$	24
$= 24$	

$42.5t - 2.1 = 8.9t + 2.1$

$+2.1 \quad +2.1$

$\frac{5t}{5} = \frac{11}{5}$

$1t = 2.2$

Solving Equations with Variables on Both Sides

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3. $5x = 4x + 7$

$-4x \quad -4x$

$x = 7$

4. $6y = 7y - 4$

$-7y \quad -7y$

$\frac{-1y}{-1} = \frac{-4}{-1}$

$y = 4$

5. $3m = m + 4$

$-m \quad -m$

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

$m = 2$

6. $7n = 4n - 6$

$-4n \quad -4n$

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

$n = -2$

HAPPY BIRTHDAY, CALEB

7. $9t = 5t - 8$

$-5t \quad -5t$

$\frac{4t}{4} = \frac{-8}{4}$

$t = -2$

11. $2x = 30 + 5x$

$-5x \quad -5x$

$\frac{-3x}{-3} = \frac{30}{-3}$

$x = -10$

L.S.

$2x$

$2(-10)$

-20

R.S.

$30 + 5x$

$30 + 5(-10)$

$30 - 50$

-20

Homework for Friday

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