Pg 58

3) $x - 5 = 5 - x$

$+x \quad +x$

$2x - 5 = 5$

$+5 \quad +5$

$2x = 10$

$\{x, 2, 3, 4\}$

$\emptyset$ Empty Set

NO sol

5) $2x + 3 = 7$

$-3 \quad -3$

$2x = 4$

$\{x, 2, 3, 4\}$

7) $x - x = 0$

$0 = 0$

True

many Sol

{-2, -1, 0, 1, 2}

9) $x + x = -4$

$2x = -4$

{-2, x, x, x, x}

8) $x - x = 10$

$0 = 10$

False

No Sol

$\{-3, -2, -1, 0, 1\}$

16) $9x = -27$

$\{-3, -2, -1, 0, 1\}$

18) $8x = -16$ $\{0, 1, 2, 3, 4\}$

$\emptyset$ NO SOL

19) $3x - 1 = 11$ $\{1, 2, 3, 4\}$

$+1 \quad +1$

$3x = 12$

21) $(2x)2 = x$ $\{-2, -1, 0, 1, 2\}$

$4x = x$

23) $\frac{12}{(x-1)} = 4$ $\{1, 2, 3, 4\}$

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24) $\frac{15}{(x+2)} = 5$ $\{1, 2, 3, 4\}$

27) $\frac{x}{x} = x$ $\{1, 2, 3, 4\}$

$1 = x$

29) $\frac{(2x+3)}{5} = 3$ $\{1, 4, 6, 8\}$

$2x + 3 = 15$

$-3 \quad -3$

$2x = 12$