

## EXTRA PRACTICE — Exercises

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### Unit II – First Degree Relations with One Placeholder Part B – Complications on Equations and Inequalities Lesson 2 – Like Terms on the Same Side

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Find the solution set for each of the following relations by first collecting like terms..

1.  $5y + 2y - 3 \leq -24$

2.  $x + 4x + 3x - 10 = 70$

3.  $\frac{1}{2}x + \frac{1}{4}x - 2 = 13$

4.  $-9x - 4 + 3x \geq -28$

5.  $3 \leq -6y - 9 - 4y$

6.  $3m + 8 - 7m \geq 40$

7.  $9x + 10 - x = 58$

8.  $16x - 7\frac{2}{3} - 5x \leq 25\frac{1}{3}$

9.  $-\frac{1}{2}x - \frac{1}{4} + \frac{1}{4}x > \frac{1}{2}$

10.  $\frac{5}{6}a - \frac{1}{2}a \leq -4 + \frac{2}{3}$

11.  $8 - 6x - 14 = 12$

12.  $\frac{1}{3}t + \frac{1}{3}t + 1 = \frac{7}{6}$

13.  $2.5v + 7.3 + 3.1v = 12.9$

14.  $-8 < 0.3y + 15 - 2.6y$

15.  $\frac{2}{3}y - 6 - \frac{y}{3} \leq 3$

16.  $7x - 15 - 3x = -31$

17.  $3.2n + 5.8n = 5.6 + 7.9$

18.  $-1.5p - 2.4 + .9p \leq .6$

19.  $-2 < \frac{13}{4}x + 10 - 1.25x$

20.  $\frac{2}{3}x - \frac{3}{4}x = -4 + \frac{5}{2}$

## EXTRA PRACTICE — Answer Key

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Find the solution set for each of the following relations by first collecting like terms..

1.  $S = \{ y \mid y \leq -3 \}$

2.  $S = \{ 10 \}$

3.  $S = \{ 20 \}$

4.  $S = \{ x \mid x \leq 4 \}$

5.  $S = \{ y \mid y \leq \frac{-6}{5} \}$

6.  $S = \{ m \mid m \leq -8 \}$

7.  $S = \{ 6 \}$

8.  $S = \{ x \mid x \leq 3 \}$

9.  $S = \{ x \mid x < -3 \}$

10.  $S = \{ a \mid a \leq -10 \}$

11.  $S = \{ -3 \}$

12.  $S = \{ \frac{1}{4} \}$

13.  $S = \{ 1 \}$

14.  $S = \{ y \mid y < 10 \}$

15.  $S = \{ y \mid y \leq 27 \}$

16.  $S = \{ -4 \}$

17.  $S = \{ 1.5 \}$

18.  $S = \{ p \mid p \geq -5 \}$

19.  $S = \{ x \mid x > -6 \}$

20.  $S = \{ 18 \}$