Homework

Complete #'s 3, 5, and 4 other problems of your choice.

Write in Standard Form:

1. $y = \frac{2}{12}x - \frac{5}{72}$
2. $16y - 4 = 4x$
3. $-\frac{4}{5}x + \frac{5}{6} = -\frac{6}{7}y$
4. $y = -\frac{7}{8}x - 12$
5. $\frac{1}{7}y = -\frac{3}{4}x + \frac{31}{6}$
6. $y = \frac{11}{7}x + \frac{13}{14}$
7. $y = \frac{25}{3}x + \frac{31}{6}$
8. $\frac{13}{7}y = \frac{17}{49}x + 13$
9. $y = -7x - \frac{3}{2}$
10. $y = \frac{3}{7}x + \frac{11}{6}$
11. $-\frac{5}{6}x + 15 = \frac{12}{18}y$
12. $12y = \frac{3}{4}x + \frac{3}{6}$
13. $4y = -\frac{12}{3}x + \frac{2}{4}$
14. $9y = \frac{2}{7}x - \frac{3}{4}$
15. $5y = \frac{2}{3}x - \frac{70}{4}$
16. $-\frac{1}{3}x - \frac{5}{8} = \frac{2}{7}y$
17. $\frac{5}{11}x + 13 = y$
18. $\frac{9}{1001}y - \frac{x}{151} = \frac{1562}{139} + \frac{96}{59}y$

1. $72\left[y = \frac{2}{12}x - \frac{5}{72}\right]$

$72y = 12x - 5$

$-12x \quad -12x$

$-1[-12x + 72y = -5]$

$12x - 72y = 5$

2. $16y - 4 = 4x$

$-16y \quad -16y$

$-4 = 4x - 16y$

$\frac{4x}{4} - \frac{16y}{4} = \frac{-4}{4}$

$x - 4y = -1$

3. $-210\left[-\frac{4}{5}x + \frac{5}{6} = -\frac{6}{7}y\right]$

$168x - 175 = 180y$

$+175 \quad +175$

$168x = 180y + 175$

$-180y \quad -180y$

$168x - 180y = 175$

4. $8\left[y = -\frac{7}{8}x - 12\right]$

$8y = -7x - 96$

$+7x \quad +7x$

$7x + 8y = -96$

5. $168\left[\frac{1}{7}y = -\frac{3}{4}x + \frac{31}{6}\right]$

$24y = -126x + 868$

$+126x \quad +126x$

$\frac{126x}{2} + \frac{24y}{2} = \frac{868}{2}$

$63x + 12y = 434$

6. $14\left[y = \frac{11}{7}x + \frac{13}{14}\right]$

$14y = 22x + 13$

$-22x \quad -22x$

$-1(-22x + 14y = 13)$

$22x - 14y = -13$

7. $6\left[y = \frac{25}{3}x + \frac{31}{6}\right]$

$6y = 50x + 31$

$-50x \quad -50x$

$-1\left[-50x + 6y = 31\right]$

$50x - 6y = -31$

8. $49\left[\frac{13}{7}y = \frac{17}{49}x + 13\right]$

$91y = 17x + 637$

$-17x \quad -17x$

$-1\left[-17x + 91y = 637\right]$

$17x - 91y = -637$

9. $2\left[y = -7x - \frac{3}{2}\right]$

$2y = -14x - 3$

$+14x \quad +14x$

$14x + 2y = -3$

10. $42\left[y = \frac{3}{7}x + \frac{11}{6}\right]$

$42y = 18x + 77$

$-18x \quad -18x$

$-1\left[-18x + 42y = 77\right]$

$18x - 42y = 77$

11. $-\frac{5}{6}x + 15 = \frac{12}{18}y$

$6\left[-\frac{5}{6}x + 15 = \frac{2}{3}y\right]$

$-5x + 90 = 4y$

$+5x \quad +5x$

$90 = 5x + 4y$

$5x + 4y = 90$

12. $12y = \frac{3}{4}x + \frac{3}{6}$

$-4\left[12y = \frac{3}{4}x + \frac{1}{2}\right]$

$-48y = -3x - 2$

$+3x \quad +3x$

$3x - 48y = -2$

13. $4y = -\frac{12}{3}x + \frac{2}{4}$

$2\left[4y = -4x + \frac{1}{2}\right]$

$8y = -8x + 1$

$+8x \quad +8x$

$8x + 8y = 1$

14. $28\left[9y = \frac{2}{7}x - \frac{3}{4}\right]$

$252y = 8x - 21$

$-8x \quad -8x$

$-1\left[-8x + 252y = -21\right]$

$8x - 252y = 21$

15. $12\left[5y = \frac{2}{3}x - \frac{70}{4}\right]$

$60y = 8x - 210$

$-8x \quad -8x$

$-8x + 60y = -210$

$\frac{-8x}{-2} + \frac{60y}{-2} = \frac{-210}{-2}$

$4x - 30y = 105$

16. $-168\left[-\frac{1}{3}x - \frac{5}{8} = \frac{2}{7}y\right]$

$56x + 105 = -48y$

$+48y \quad +48y$

$56x + 48y + 105 = 0$

$-105 \quad -105$

$56x + 48y = -105$

17. $11\left[\frac{5}{11}x + 13 = y\right]$

$5x + 143 = 11y$

$-11y \quad -11y$

$5x - 11y + 143 = 0$

$-143 \quad -143$

$5x - 11y = -143$

18. $\frac{9}{1001}y - \frac{x}{151} = \frac{1562}{139} + \frac{96}{59}y$

$-\frac{96}{59}y \quad -\frac{96}{59}y$

$-\frac{x}{151} - \frac{96}{59}y + \frac{9}{1001}y = -\frac{1562}{139}$

See next page

$-1,239,589,351\left[-\frac{x}{151}-\frac{96}{59}y+\frac{9}{1001}y=\frac{-1282}{139}\right]$

$8,209,201x+2,816,958,944y-11,145,159y=-13,929,773,858$

$8,209,201x+2,005,813,785y=-13,929,773,858$