

2.) $\{(2, -1)\}$	16.) $\{(\frac{35}{8}, \frac{3}{8})\}$	30.) $\{(-8, -8)\}$
4.) $\{(3, 2)\}$	18.) $\{(0, -3)\}$	32.) $\{(3, 0)\}$
6.) $\{(2, -1)\}$	\emptyset	34.) $\{(3, -5)\}$
8.) $\{(-4, 2)\}$	$\{(0, 2)\}$	36.) $\{(5, 10)\}$
10.) $\{(3, 7)\}$	$\{(0, 2)\}$	38.) $\{(\frac{2}{3}, -1)\}$
2.) $\{(-\frac{2}{3}, 0)\}$	infinite solutions	
4.) $\{(\frac{9}{8}, -\frac{17}{4})\}$	$\{(-\frac{1}{2}, \frac{3}{2})\}$	

2) $2x - 3y = 7$
 $3x + y = 5$
 $y = 5 - 3x$
 $2x - 3(5 - 3x) = 7$
 $2x - 15 + 9x = 7$
 $11x - 15 = 7$
 $11x = 22$
 $x = 2$
 $y = 5 - 3(2)$
 $y = 5 - 6$
 $y = -1$
 $\{(2, -1)\}$

3) $5x + 6y + 8 = 0$
 $(3x - 2y + 16 = 0) \cdot 3$
 $5x + 6y + 8 = 0$
 $9x - 6y + 48 = 0$
 $14x + 56 = 0$
 $14x = -56$
 $x = -4$
 $3(-4) - 2y = -16$
 $-12 - 2y = -16$
 $-2y = -4$
 $y = 2$
 $\{(-4, 2)\}$

14) $(2x + y = -2) \cdot 3$
 $2x - 3y = 15$
 $6x + 3y = -6$
 $2x - 3y = 15$
 $8x = 9$
 $x = \frac{9}{8}$
 $2(\frac{9}{8}) + y = -2$
 $\frac{9}{4} + y = -2$
 $y = -\frac{17}{4}$
 $\{(\frac{9}{8}, -\frac{17}{4})\}$

16) $3x + 5y = 15$
 $(x - y = 4) \cdot 5$
 $3x + 5y = 15$
 $5x - 5y = 20$
 $8x = 35$
 $x = \frac{35}{8}$
 $\frac{35}{8} - y = 4$
 $-y = 4 - \frac{35}{8}$
 $-y = \frac{32}{8} - \frac{35}{8}$
 $y = \frac{3}{8}$
 $\{(\frac{35}{8}, \frac{3}{8})\}$

24) $2x + y = 2 - x$
 $3x + y = 2$
 $x + 2y = 2 + y$
 $(-1)(x + y = 2)$
 $(0) + y = 2$
 $y = 2$
 $\{(0, 2)\}$

$3x + y = 2$
 $-x - y = -2$
 $2x = 0$
 $x = 0$

26) $x + y = 4(y + 2)$
 $x + y = 4y + 8$
 $x - 3y = 8$

$x - y = 2(y + 4)$
 $x - y = 2y + 8$
 $x - 3y = 8$

infinite solutions

28) $2(y - x) = 5 + 2x$
 $2y - 2x = 5 + 2x$
 $2y - 4x = 5$

$2(y + x) = 5 - 2y$
 $2y + 2x = 5 - 2y$
 $2(4y + 2x = 5)$

$2y - 4x = 5$
 $8y + 4x = 10$
 $10y = 15$
 $y = \frac{3}{2}$

$2(\frac{3}{2}) - 4x = 5$
 $3 - 4x = 5$
 $-4x = 2$
 $x = -\frac{1}{2}$
 $\{(-\frac{1}{2}, \frac{3}{2})\}$

36) $\frac{3}{u} + \frac{4}{v} = 1$
 $(\frac{6}{u} - \frac{2}{v} = 1) \cdot 2$
 $(\frac{3}{5} + \frac{4}{v} = 1) \cdot 5v$
 $3v + 20 = 5v$
 $20 = 2v$
 $10 = v$
 $\{(5, 10)\}$

$\frac{3}{u} + \frac{4}{v} = 1$
 $\frac{12}{u} - \frac{4}{v} = 2$
 $(\frac{15}{u} = 3) \cdot u$
 $\frac{15}{3} = \frac{3u}{3}$
 $u = 5$

38) $(\frac{4}{u} + \frac{3}{v} = 3) \cdot (-3)$
 $(\frac{6}{u} + \frac{9}{v} = 4) \cdot 2$
 $\frac{4}{u} + \frac{3}{-1} = 3$
 $\frac{4}{u} - 3 = 3$
 $\frac{4}{u} = 6$
 $4 = 6u$
 $\frac{4}{6} = u$
 $\{(\frac{2}{3}, -1)\}$

$\frac{-12}{u} - \frac{9}{v} = -9$
 $\frac{12}{u} + \frac{9}{v} = 8$
 $\frac{1}{v} = -1$
 $v = -1$