

$x = -3y + 1$
 11) $x - 3y = 1$
 $-3x - 3y = -15$
 $-3(-3y + 1) - 3y = -15$
 $9y - 3 - 3y = -15$
 $6y - 3 = -15$
 $+3 = +3$
 $6y = -12$
 $y = -2$
 $(-3(-2) + 1)$
 $(7, -2)$

13) $-3x + 3y = 4$
 $-x + y = 3$
 $y = x + 3$
 $-3x + 3(x + 3) = 4$
 $-3x + 3x + 9 = 4$
 $9 = 4$
 $0x = -5$

No solutions

15) $6x + 6y = -6$
 $5x + y = -13$
 $y = -5x - 13$
 $6x + 6(-5x - 13) = -6$
 $6x - 30x - 78 = -6$
 $-24x - 78 = -6$
 $-24x = 72$
 $-24 = -24$
 $x = -3$
 $y = -5(-3) - 13$
 $y = 15 - 13$
 $y = 2$
 $(-3, 2)$

17) $-3x - 4y = 2$
 $3x + 3y = -3$
 $\frac{3y}{3} = \frac{-3x - 3}{3}$
 $y = -x - 1$
 $-3x - 4(-x - 1) = 2$
 $-3x + 4x + 4 = 2$
 $x + 4 = 2$
 $x = -2$
 $y = -(-2) - 1$
 $y = 2 - 1$
 $y = 1$
 $(-2, 1)$

19) $-5x - 8y = 17$
 $2x - 7y = -17$
 $x + y = 2$
 $x = -y + 2$
 $x = -2$

Dont Do

$y = 5x + 19$
 12) $-3x - 8y = 20$
 $-5x + y = 19$
 $-3x - 8(5x + 19) = 20$
 $-3x - 40x - 152 = 20$
 $-43x - 152 = 20$
 $+152 = +152$
 $-43x = 172$
 $x = -4$
 $y = 5(-4) + 19$
 $y = -20 + 19$
 $y = -1$
 $(-4, -1)$

14) $-3x + 3y = 3$
 $-5x + y = 13$
 $y = 5x + 13$
 $-3x + 3(5x + 13) = 3$
 $-3x + 15x + 39 = 3$
 $12x + 39 = 3$
 $-39 = -39$
 $12x = -36$
 $x = -3$
 $y = 5(-3) + 13$
 $y = -15 + 13$
 $y = -2$
 $(-3, -2)$

16) $2x + y = 20$
 $6x - 5y = 12$
 $y = -2x + 20$
 $6x - 5(-2x + 20) = 12$
 $6x + 10x - 100 = 12$
 $16x - 100 = 12$
 $+100 = +100$
 $16x = 112$
 $x = 7$
 $y = -2(7) + 20$
 $y = -14 + 20$
 $y = 6$
 $(7, 6)$

18) $-2x + 6y = 6$
 $-7x + 8y = -5$
 $\frac{-2x}{-2} = \frac{-6y + 6}{-2}$
 $x = 3y - 3$
 $-7(3y - 3) + 8y = -5$
 $-21y + 21 + 8y = -5$
 $-13y + 21 = -5$
 $-13y = -26$
 $y = 2$
 $x = 3(2) - 3$
 $x = 6 - 3$
 $x = 3$
 $(3, 2)$

20) $-2x - y = -9$
 $5x - 2y = 18$
 $\frac{-y}{-1} = \frac{2x - 9}{-1}$
 $y = -2x + 9$
 $5x - 2(-2x + 9) = 18$
 $5x + 4x - 18 = 18$
 $9x - 18 = 18$
 $+18 = +18$
 $9x = 36$
 $x = 4$
 $y = -2(4) + 9$
 $y = -8 + 9$
 $y = 1$
 $(4, 1)$