#1

$y = -3x + 2$

$y = 4x - 5$

$\boxed{(1, -1)}$

#2

$y + 5x = -7$

② SUBSTITUTE THIS INTO THE OTHER EQUATION

$7x + 17 + 5x = -7$

③ NOW SOLVE

$12x + 17 = -7$

$12x = -7 - 17$

$12x = -24$

$\dfrac{12x}{12} = \dfrac{-24}{12}$

$x = -2$

SUBSTITUTION

$y - 17 = 7x$

$y = 7x + 17$

① SOLVE ONE OF THE EQUATIONS FOR ONE OF THE VARIABLES

$y = 7(-2) + 17$

$y = -14 + 17$

$y = 3$

② NOW SOLVE THIS VALUE BACK INTO EQUATION IN STEP ①

$\boxed{(-2, 3)}$

#3

① $9x - 4y = 0$

$9x = 4y$

$\dfrac{9x}{9} = \dfrac{4}{9}y$

$x = \dfrac{4}{9}y$

④ $x = \dfrac{4}{9}\left(\dfrac{63}{47}\right)$

$x = \dfrac{28}{47}$

② $5x + 3y = 7$

$5\left(\dfrac{4}{9}y\right) + 3y = 7$

③ $\dfrac{20}{9}y + 3y = 7$

$9\left(\dfrac{20}{9}y\right) + 9(3y) = 9(7)$

$20y + 27y = 63$

$47y = 63$

$y = \dfrac{63}{47}$

$\left(\dfrac{28}{47}, \dfrac{63}{47}\right)$

— #4

$x + y = -6$

$-3x - y = 20$

$-2x \quad\quad = 14$

$-2x = 14$

$\dfrac{-2x}{-2} = \dfrac{14}{-2}$

$x = -7$

ELIMINATION

$x + y = -6$

$-7 + y = -6$

$y = -6 + 7$

$y = 1$

$\boxed{(-7, 1)}$