$4x+3y \leq 720$

$-3y \quad -3y$

$4x \leq 720-3y$

$-720 \quad -720$

$\frac{4x-720 \leq -3y}{-3}$

$-4/3x+240 \geq y$

$5x+3y \leq 750$

$-3y \quad -3y$

$5x \leq 750-3y$

$-750 \quad -750$

$\frac{5x-750 \leq -3y}{-3}$

$-5/3x+250 \geq y$

$3x+5y \leq 45$

$-5y \quad -5y$

$3x \leq 45-5y$

$-45 \quad -45$

$\frac{3x-45 \leq -5y}{-5}$

$-3/5x+9 \geq y$

$x+7y \leq 42$

$-7y \quad -7y$

$x \leq 42-7y$

-42

$\frac{x-42 \leq -7y}{-7}$

$-x+6 \geq y$

$x+y \leq 220$

$-y \quad -y$

$x \leq 220-y$

-220

$\frac{x-220 \leq -y}{-1}$

$-x+220 \geq y$

$x+y \leq 210$

$-y \quad -y$

$x \leq 210-y$

-210

$\frac{x-210 \leq -y}{-1}$

$-x+210 \geq y$

$6x+5y \leq 60$

$-5y \quad -5y$

$6x \leq 60-5y$

$-60 \quad -60$

$\frac{6x-60 \leq -5y}{-5}$

$-6/5x+12 \geq y$

$5x+y \leq 40$

$-y \quad -y$

$5x \leq 40-y$

-40

$\frac{5x-40 \leq -y}{-1}$

$-5x+40 \leq y$

$y = ax + b$

$a = -1.003$

$b = 34.118$

$r^2 = .741321$

$r = .861$

13 hours

$-1.003(13) + 34.118 = \boxed{21.079}$

$x + 4y \leq 24$

$-4y \quad -4y$

$x \leq 24 - 4y$

$-24 \quad -24$

$x - 24 \leq -4y$

-4

$-1/4x + 6 \geq y$

$5x + 6y \leq 50$

$-6y \quad -6y$

$5x \leq -6y + 50$

$-50 \quad -50$

$5x - 50 \leq -6y$

-6

$-5/6x + 50/6 \geq y$

$2y + 3x \geq 18$

$-2y \quad -2y$

$3x \geq 18 - 2y$

$-18 \quad -18$

$3x - 18 \geq -2y$

-2

$\boxed{-3/2x + 9 \leq y}$

~~$2y + 3x \geq 18$~~

~~$2y \quad -2y$~~

$6y + 5x \geq 45$

$-6y \quad -6y$

$5x \geq 45 - 6y$

$-45 \quad -45$

$5x - 45 \geq -6y$

-6

$\boxed{-5/6x + 7.5 \geq y}$

$y + x \geq 8$

$-y \quad -y$

$x \geq 8 - y$

$-8 \quad -8$

$30a + 80b =$

$A + B \leq 30$

$10a + 5b \leq 200$

$A \geq 0, \; B \geq 0$

$15a + 60b$

$A + B < 60$

$15a + 30b \leq 1500$

$4y + 5x \geq 40$

$-4y \quad -4y$

$5x \geq 40 - 4y$

-40

$5x - 40 \geq -4y$

-4

$\boxed{-5/4x + 10}$