

$$4x + 3y \leq 720$$

$$\begin{array}{r} 4x + 3y \leq 720 \\ -3y \quad -3y \\ \hline 4x \leq 720 - 3y \\ -720 \quad -720 \\ \hline 4x - 720 \leq -3y \end{array}$$

$$\begin{array}{r} 4x - 720 \leq -3y \\ -3 \quad -3 \\ \hline \frac{4}{3}x - 240 \geq y \end{array}$$

$$5x + 3y \leq 750$$

$$\begin{array}{r} 5x + 3y \leq 750 \\ -3y \quad -3y \\ \hline 5x \leq 750 - 3y \\ -750 \quad -750 \\ \hline 5x - 750 \leq -3y \end{array}$$

$$\begin{array}{r} 5x - 750 \leq -3y \\ -3 \quad -3 \\ \hline \frac{5}{3}x - 250 \geq y \end{array}$$

$$3x + 5y \leq 45$$

$$\begin{array}{r} 3x + 5y \leq 45 \\ -5y \quad -5y \\ \hline 3x \leq 45 - 5y \\ -45 \quad -45 \\ \hline 3x - 45 \leq -5y \end{array}$$

$$\begin{array}{r} 3x - 45 \leq -5y \\ -3 \quad -3 \\ \hline \frac{3}{5}x - 15 \geq y \end{array}$$

$$x + 7y \leq 42$$

$$\begin{array}{r} x + 7y \leq 42 \\ -7y \quad -7y \\ \hline x \leq 42 - 7y \\ -42 \quad -42 \\ \hline x - 42 \leq -7y \end{array}$$

$$\begin{array}{r} x - 42 \leq -7y \\ -1 \quad -1 \\ \hline -x + 42 \geq y \end{array}$$

$$x + y \leq 220$$

$$\begin{array}{r} x + y \leq 220 \\ -y \quad -y \\ \hline x \leq 220 - y \\ -220 \quad -220 \\ \hline x - 220 \leq -y \end{array}$$

$$\begin{array}{r} x - 220 \leq -y \\ -1 \quad -1 \\ \hline -x + 220 \geq y \end{array}$$

$$x + y \leq 210 + x$$

$$\begin{array}{r} x + y \leq 210 + x \\ -x \quad -x \\ \hline y \leq 210 \\ -210 \quad -210 \\ \hline y - 210 \leq 0 \end{array}$$

$$\begin{array}{r} y - 210 \leq 0 \\ -1 \quad -1 \\ \hline -y + 210 \geq 0 \end{array}$$

$$6x + 5y \leq 60$$

$$\begin{array}{r} 6x + 5y \leq 60 \\ -5y \quad -5y \\ \hline 6x \leq 60 - 5y \\ -60 \quad -60 \\ \hline 6x - 60 \leq -5y \end{array}$$

$$\begin{array}{r} 6x - 60 \leq -5y \\ -6 \quad -6 \\ \hline x - 10 \geq y \end{array}$$

$$5x + y \leq 40$$

$$\begin{array}{r} 5x + y \leq 40 \\ -y \quad -y \\ \hline 5x \leq 40 - y \\ -40 \quad -40 \\ \hline 5x - 40 \leq -y \end{array}$$

$$\begin{array}{r} 5x - 40 \leq -y \\ -1 \quad -1 \\ \hline -5x + 40 \geq y \end{array}$$

$$y = ax + b$$

$$a = -1.003$$

$$b = 34.118$$

$$r^2 = .741321$$

$$r = .861$$

$$x + 4y \leq 24$$

$$-4y \quad -4y$$

$$x \leq 24 - 4y$$

$$-24 \quad -24$$

$$x - 24 \leq -4y$$

$$-4$$

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

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

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

$$3x \geq 18 - 2y$$

$$-18 \quad -18$$

$$3x - 18 \geq -2y$$

$$-2$$

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

$$y + x \geq 8$$

$$-y \quad -y$$

$$x \geq 8 - y$$

$$-8 \quad -8$$

$$30a + 80b =$$

$$A + B \leq 30$$

$$10a + 5b \leq 200$$

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

$$15a + 10b$$

$$A + B \leq 60$$

$$15a + 30b \leq 1500$$

13 hours

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

$$5x + 6y \leq 50$$

$$-6y \quad -6y$$

$$5x \leq -6y + 50$$

$$-50 \quad -50$$

$$5x - 50 \leq -6y$$

$$-6$$

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

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

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

$$3x \geq 18 - 2y$$

$$-18 \quad -18$$

$$3x - 18 \geq -2y$$

$$-2$$

$$-3/2x + 9 \leq y$$

$$-6$$

$$-5/6x + 7.5 \geq y$$

$$-6$$

$$-5/6x + 7.5 \geq y$$

$$4y + 5x \geq 40$$

$$-4y \quad -4y$$

$$5x \geq 40 - 4y$$

$$-40 \quad -40$$

$$5x - 40 \geq -4y$$

$$-4$$

$$-5/4x + 10 \geq y$$

$$-4$$

$$-5/4x + 10 \geq y$$