

$$3. \quad 500 = 10 + 10y$$

$$\Rightarrow x + y = 50$$

$$10(1+t)x + 10y = 500$$

$$y = 50 - (1+t)x$$

$$4x + 5y = 250$$

$$x + y = 40$$

$$\begin{cases} 10(x+10) + 10y = 500 & (x \geq 10) \\ 10y = 500 & (x < 10) \end{cases}$$

$$\begin{cases} 10x + 10y = 500 & (x \leq 30) \\ 10x \cdot 30 + 12(x-30) + 10y = 500 & (x > 30) \end{cases}$$

$$\begin{cases} x + y = 70 & (x \geq 30) \\ 10x + 10y = 500 & (x \leq 30) \end{cases}$$

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