



Sam Hopkins
HW 16
7.1, 7.3

$$x=5 \\ y=2 \rightarrow 5(5) + 3(2) = \boxed{31}$$

$$5(x) + 3(y)$$

7.3)

$$\max (M_1 1000 + M_2 1,200 + M_3 12,000)$$

$$M_1 + M_2 + M_3 \leq 60$$

$$M_1 \leq 40$$

$$M_2 \leq 30$$

$$M_3 \leq 20$$

$$2(M_1) + 1(M_2) + 3(M_3) \leq 100$$

$$M_1 \geq 0$$

$$M_2 \geq 0$$

$$M_3 \geq 0$$