$-2v + 6w = 9$

$+2v \quad +2v$

$\frac{6w}{6} = \frac{9 + 2v}{6}$

$w = \frac{9}{6} + \frac{2}{6}v$

$w = \frac{3}{2} + \frac{1}{3}v$

$\boxed{w = \frac{1}{3}v + \frac{3}{2}}$

$-2v + 6w = 9$

$-6w \quad -6w$

$\frac{-2v}{-2} = \frac{9 - 6w}{-2}$

$v = \frac{9}{-2} \quad \frac{-6w}{-2}$

$v = -\frac{9}{2} + 3w$

$\boxed{v = 3w - \frac{9}{2}}$

$F = 2t - 3$

$t = 7$

$F = 2(7) - 3$

$F = 14 - 3$

$\boxed{F = 11}$

$4a + b = -52$

$-b \quad -b$

$\frac{4a}{4} = \frac{-52 - b}{4}$

$a = -\frac{52}{4} - \frac{b}{4}$

$a = -13 - \frac{b}{4} \Rightarrow \boxed{a = -\frac{b}{4} - 13}$

$13 + 4x$

$13 + 4(3)$

$13 + 12$

$\boxed{25}$

$\frac{25}{4} = \frac{4x}{4}$

$\boxed{6.25 = x}$

$384 + 4.4s$

$384 + 4.4(32)$

$384 + 140.8$

$\boxed{524.8}$

$90 \cdot 7.2 = 648$

$648 - y = 414$

$-648 \quad -648$

$-1 \cdot (-y) = (414 - 648) \cdot -1$

$y = -414 + 648$

$y = 234$

$\frac{7.2x}{7.2} = \frac{234}{7.2}$

$\boxed{x = 32.5 \text{ kg}}$

$(y_2 - y_1) = m(x_2 - x_1)$

$(2, 10)$ and $(4.5, 30)$

$(30 - 10) = m(4.5 - 2)$

$\frac{20}{2.5} = \frac{m(2.5)}{2.5}$

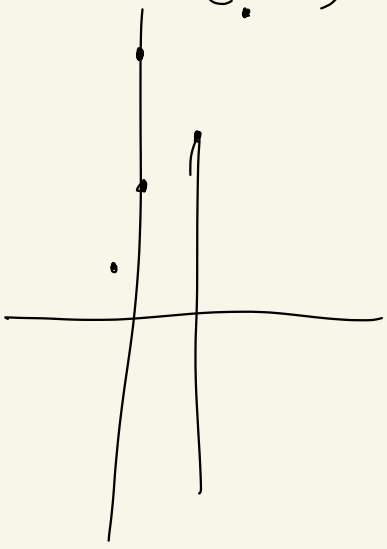
$\boxed{m = 8}$

$90 + 0.5x$

$140 + 0.4x$

$90 + 0.5(500) = 340$

$140 + 0.4(500) = 340$



$(0,140)$ and $(50,160)$

$(y_2 - y_1) = m(x_2 - x_1)$

$160 - 140 = m(50 - 0)$

$\frac{20}{50} = \frac{50m}{50}$

$\frac{2}{5} = m$

$0.4 = m$

2 2 2

5, 5, 7, 9

$x^2 + 10$

Non-Linear

Linear ⇒ $\frac{\text{change in } y}{\text{change in } x}$ always constant

$\frac{-1}{4}$ $\frac{-1}{6}$

Unit Test

$M =$

$400 = 590 - 200 + 10$

$M = 590 - V + 10$

$M = 590 - 0.95V$

$M = 590 - 0.95(200)$

$M = 590 - 190$

$\boxed{M = 402}$