

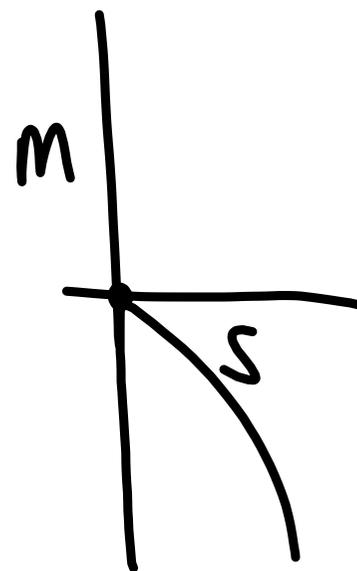
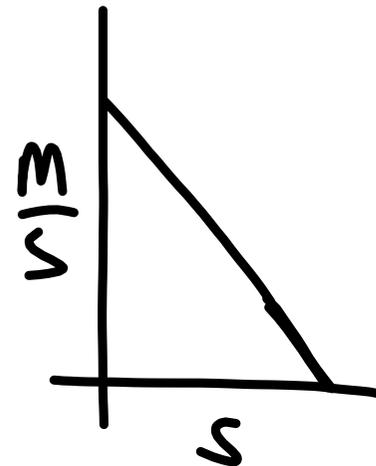
$$\textcircled{1} \quad f(x) = 300 - 0.0150x$$

$$\int 300 - 0.0150x \, dx$$

$$300x - \frac{0.0150x^2}{2}$$

$$300(200) - \frac{0.0150(200)^2}{2}$$

$$300 \cdot m$$



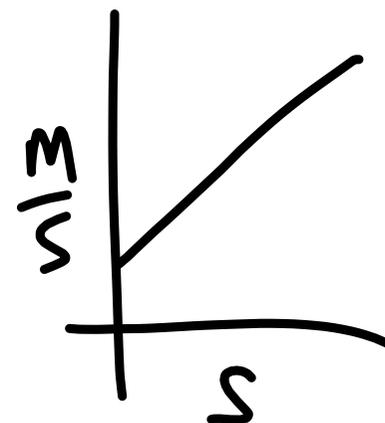
$$0 = 3.00 - 0.0150x$$

$$\begin{array}{r} -3.00 = -0.0150x \\ \hline -0.0150 \quad \cancel{-0.0150} \end{array}$$

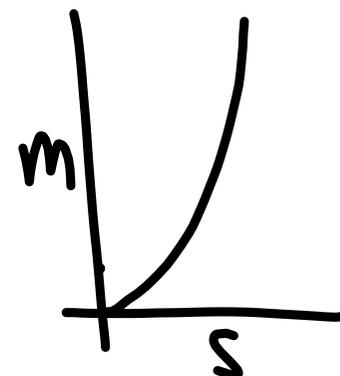
$$200.5 = x$$

② $f(x) = 1.00 + 2.00x$

$$\int 1.00 + 2.00x \, dx$$



$$\frac{1.00x^1}{1} + \frac{2.00x^2}{2} + C$$



$$x + x^2 + C \rightarrow 4.00$$

$$x + x^2 + 4$$

$$12.0 = 1.00 + 2.00x$$

$$11.0 = 2.00x$$

$$5.50 \text{ s} = x$$

$$x + x^2 + 4$$

$$(5.50) + (5.50)^2 + 4 =$$

$$39.75 \text{ m} \approx$$

$$\boxed{39.8 \text{ m}}$$