

Review:

minimize average cost if $C(x) = 2x^2 + 54x + 98$.

Sketch a graph of $f(x) = 4x^3 - x^4$.

construct sign diagrams for an arbitrary graph.

A printed page is to contain 56 in^2 of text. a $1''$ margin at the top. & $\frac{3}{4}''$ margins otherwise. minimize the total area of the sheet.

$$\frac{d}{dx} \ln\left(\frac{q}{q^2-1}\right)$$

$$\frac{d}{dx} \frac{1+e^{-x}}{1-e^{-x}}$$

write the eqn. of the tangent line to $y = x \ln x$ at $x=1$. Estimate $y(2)$.

Suppose demand is given by $q = -10 \ln\left(\frac{P}{100}\right)$.

What is the elasticity when 10 units are demanded at $\$36.79$