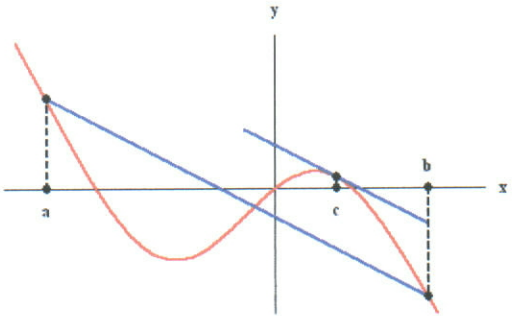
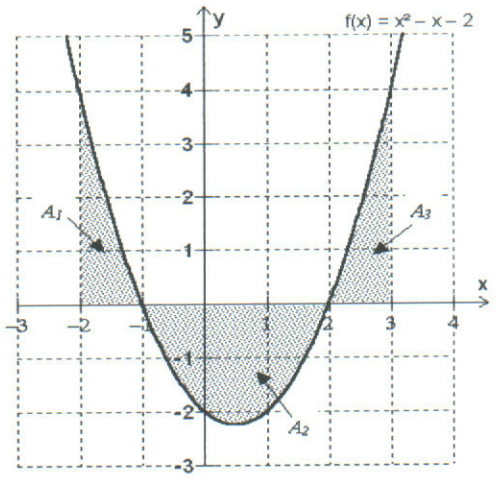
A. P. Calculus REVIEW

$$\int_{-4}^{3} |x+2|\,dx$$

$y = \tan^{-1}(x)$





$$\frac{dy}{dx} = 2x - 1$$

$$\frac{dy}{dt} = \frac{2t^2}{3y}, \quad y(0) = 2$$

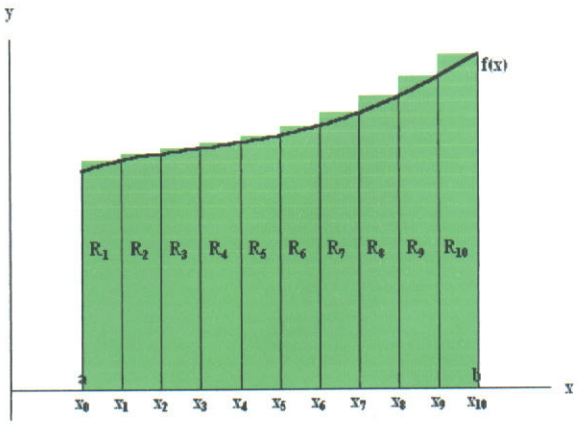
$$\frac{d(uv)}{dx}$$

$$f(x) = \begin{cases} 2x-1 & for \quad x<0 \\ -2x+1 & for \quad 0<x<1 \\ 2x-1 & for \quad x>1 \end{cases}$$

$$y = (x^2+5)^8$$

$$\frac{dy}{dx} =$$

$$\int 5e^x\,dx$$



$$\lim_{x\to\infty} \frac{x^2+1}{2x-3}$$

$$\int x\sqrt{1+x}\,dx$$

Q: How do you know if a function is continuous at a point?