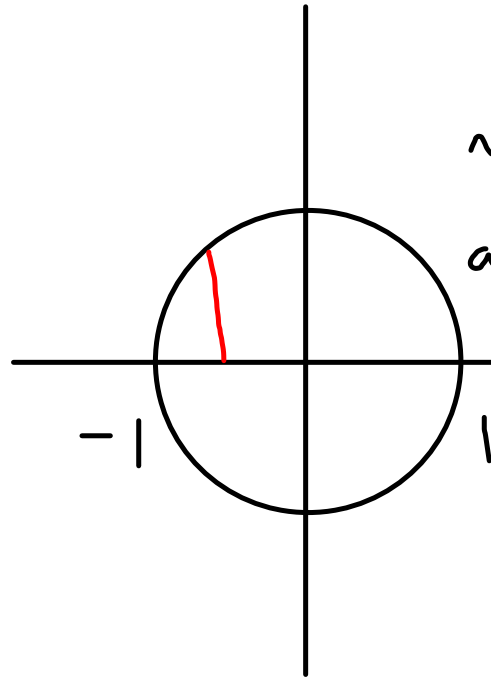


$$\text{av fn value} = \frac{1}{b-a} \int_a^b f(x) dx$$

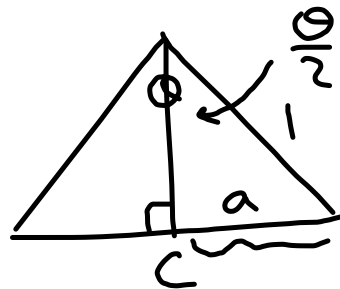
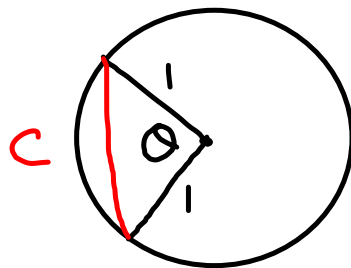


$$y = \sqrt{1-x^2}$$

avg funkt.
value

$$\frac{1}{2} \int_{-1}^1 2\sqrt{1-x^2} dx$$

$$\int_{-1}^1 \sqrt{1-x^2} dx = \frac{\pi}{2}$$



$$\sin \frac{\theta}{2} = \frac{a}{1}$$

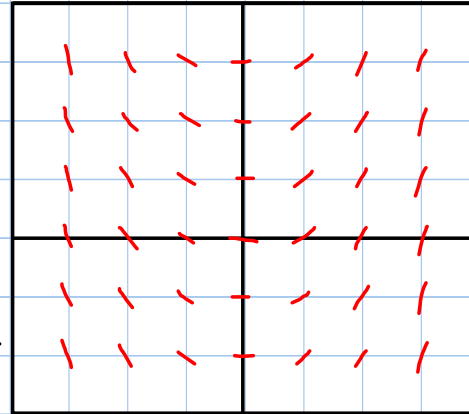
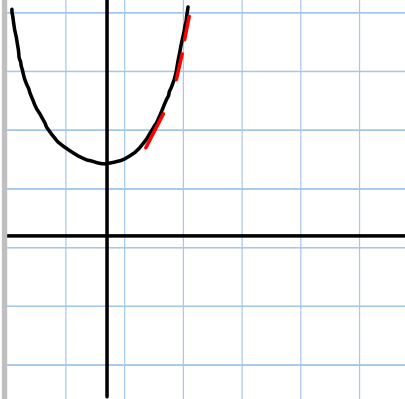
$$2 \sin \frac{\theta}{2} = c$$

$$\text{Average } c = \frac{1}{2\pi} \int_0^{2\pi} 2 \sin \frac{\theta}{2} d\theta = \frac{4}{\pi}$$

$$\frac{dy}{dx} = .05y$$

$$\frac{dy}{dt} = 2t$$

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



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

