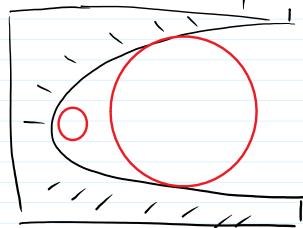
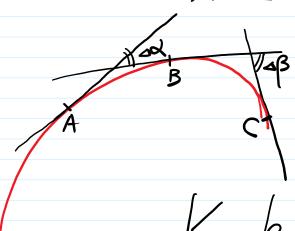
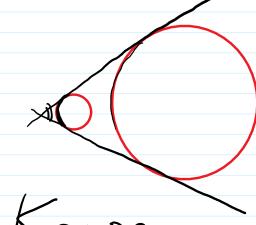


2017年11月13日 8:31









1. 32.

平均曲译
$$\overline{K} = \left| \frac{\Delta \alpha}{\Delta S} \right|$$

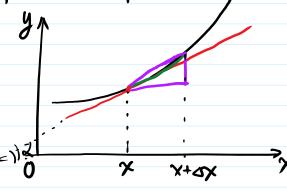
$$\mathbb{D}^{\frac{1}{2}}: \quad K: \stackrel{\sim}{\underset{\Delta S \to 0}{\sim}} \overline{K} = \stackrel{\sim}{\underset{\Delta S \to 0}{\sim}} \left| \frac{\Delta d}{\Delta S} \right|$$

$$= \left| \frac{2}{250} \frac{\Delta \lambda}{\Delta 5} \right| = \left| \frac{d\lambda}{d5} \right$$

2. if

tografie
$$k = tand = f(x) = y'$$

$$\Rightarrow$$
 $d\alpha = \frac{1}{1+w^2} dx$



$$\Rightarrow d\alpha = \frac{y''}{1+y'^2} dx$$

$$\frac{3\sqrt{3x}}{3}\sqrt{3} = \frac{1+y^2}{2}\sqrt{2}$$

U 7 X+4X /

$$(\Delta \xi) \approx (\Delta x) + (\Delta y)^{2}$$

$$(\Delta \xi) \approx 1 + (\Delta y)^{2}$$

$$\left(\frac{ds}{dx}\right)^2 = 1 + \left(\frac{dy}{dx}\right)^2$$

$$\frac{ds}{dx} = \pm \int 1 + y'^2 dx$$

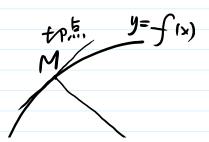
例1. 成動な、(1)
$$y = kx + b$$
.
(2) $x^2 + y^2 = R^2$.

$$\begin{cases} y'' = 0 \Rightarrow K = 0 \end{cases}$$

(2)
$$2x + 2yy' = 0 \Rightarrow y' = -\frac{x}{y}$$

$$y'' = -\frac{y - xy'}{y^2} = -\frac{y + \frac{x^2}{y}}{y^2} = -\frac{x^2 + y^2}{y^3} = -\frac{R^2}{y^3}$$

$$\Rightarrow K = \frac{\frac{R^2}{y^2}}{(1 + \frac{x^2}{y^2})^{3/2}} = \frac{1}{R}.$$



W4	712	:	K =	K .				
'\				DM =	R			${\mathcal D}$
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