2.1, 2.3, 2,4,7,5.

tingurl. com/apex calculus.

$$\frac{1}{y} = \frac{7n+1}{4n} \qquad \frac{1}{4n} e^{x} = e^{x}$$

$$= \frac{2n+1}{4n} \qquad \frac{1}{4n} e^{x} = e^{x}$$

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$$= \frac{2n+1}{2n+1} \qquad \frac{1}{2n+1} \qquad \frac{1}{2n+1}$$

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 $y = \sin(7)$

$$y' = \sin(\tau)$$

$$y' = \sin(\tau)$$

$$2 \cdot \ln(\sin(\tau))$$

$$\frac{1}{j(\theta) = \cot(\theta^2 - 5)}$$

$$= \frac{1}{\tan(\theta^2 - 5)}$$

$$\frac{1}{j'(\theta) = \frac{1}{\tan^2(\theta^2 - 5)}}$$

$$\frac{1}{\tan^2(\theta^2 - 5)}$$

$$= \frac{-20 + cm^{2}(8^{2}-5)}{+ cm^{2}(8^{2}-5)} - 20$$

$$= \frac{-20 \left(1 + \frac{1}{+ cm^{2}(8^{2}-5)}\right)}{+ cm^{2}(8^{2}-5)}$$

$$= -20 \left(1 + cot^{2}(8^{2}-5)\right)$$

$$= -20 \left(1 + cot$$

anantity = approximation + enor or rection enanty 2 appox. $f(a+h) \approx f(a) + hf(a)$ f(a) = f(a) + hf(a) f(a) = f(a) + hf(a)of f + error (2) $h \in (h)$ o ath $\varepsilon(h) = \frac{f(a+h)-f(a)}{o} - f(a)$ F(n) -> L as 2->a

1 + 600 3 800 SA.

[n-a| < 8 => | f(n) - L| < 8













