Kapikl3.9

$$\begin{array}{l}
A = 2 \\
A = 2 \\
F(A) = 7
\end{array}$$

$$\begin{array}{l}
F'(A) = 3x^{2} - 2 \\
F'(A) = f'(2) = 3 \cdot 2 - 2 = 10
\end{array}$$

$$\begin{array}{l}
C(x) = 7 + 10(x - 2) = 7 + 10x - 20 \\
= 10x - 13
\end{array}$$

$$\frac{Allq:}{L(x) = f(a) + f'(a)(x - a)}$$

$$x - koordincle = a$$

$$y - koordincle = f(a)$$

$$m = \frac{f(x) - f(c)}{x - a} \qquad | \cdot (x - a)$$

$$m(x - a) = f(x) - f(c) \qquad | + f(a)$$

$$L(x) = f(x) = f(c) + m(x - a)$$

$$f'(c)$$

$$\begin{array}{ll}
(3a) \\
f(x) = \sin x & a = 0 \\
f(0) = \sin 0 = 0 \\
f'(x) = \cos x \\
f'(0) = \Lambda
\end{array}$$

$$L(x) = 0 + 1 (x - c)$$

$$L(x) = \frac{x}{2}$$

$$f(x) = (1 + x)^{K}$$

$$x = 0$$

$$\alpha = 0$$

$$f(0) = (1 + 0)^{K} = 1^{K} = 1$$

$$f'(x) = K \cdot (1 + x)^{K-1}$$

$$f'(0) = K \cdot (1 + 0)^{K-1} = K$$

$$L(x) = 1 + K \cdot (x - 0) = 1 + K \cdot x$$