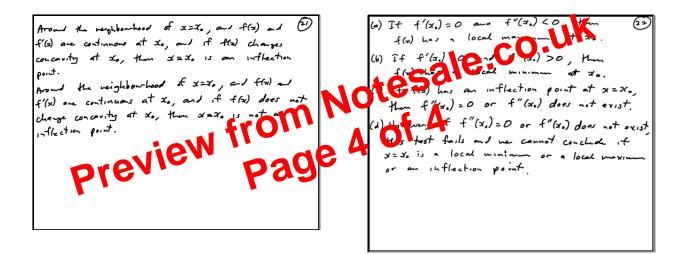
Around the neighbourhood of x=x. and fix) is (\mathbf{r}) continuous at xo, if f(a) changes orientation from decreasing to increasing at xo, then x=x. is a local minimum point Aroud the neighbourhood of x=x. and fix) is continuous at x=x0, and if f(x) does not change orientation at 20, then x= 2, is written a local minimum nor a local maximum point.

Inflection Points 69 Inflection points may occur when 1) f"(x)=0 or 2) f"(a) does not exist. If f"(x) >0 on an interval I, this indicates that first is concave up on I. If f"(0) <0 on an interval I, this indicates that fix) is concave down on I



Eucledines for curve shetching can be (2) found on page 249 of you textbook. <u>Example</u>:-Shotch the graph of $f(x) = 3x^{4} + 8x^{3} + 8y^{2}$