

One-Sided Limits

$$\lim_{x \rightarrow c^+} f(x) = L$$

$$\lim_{x \rightarrow c^-} f(x) = L$$

$$\lim_{x \rightarrow c^+} f(x)$$

$$\lim_{x \rightarrow c^-} f(x) = L$$

$$x \rightarrow c$$

$x \rightarrow c^+$ right-hand limit

$$x \rightarrow c^-$$

$$\lim_{x \rightarrow c^-} f(x)$$

$x \rightarrow c^-$ left-hand limit

$$\lim_{x \rightarrow c^+} f(x) = L$$

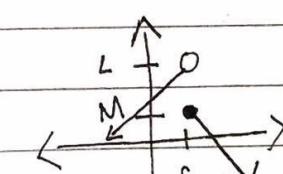
$$x \rightarrow c^+$$

$$\lim_{x \rightarrow c} f(x) \text{ DNE}$$

$$\lim_{x \rightarrow c^-} f(x) = M$$

$$x \rightarrow c$$

$$x \rightarrow c^-$$



$$\lim_{x \rightarrow c^+} f(x) = L$$

$$x \rightarrow c^-$$

$$\lim_{x \rightarrow c^+} f(x) = M$$

$$x \rightarrow c^+$$

$$\lim_{x \rightarrow c} f(x) \text{ DNE}$$

$$x \rightarrow c$$

$$f(c) \text{ undefined - hollow}$$

$$\lim_{x \rightarrow c^-} f(x) = L$$

$$x \rightarrow c^-$$

$$\lim_{x \rightarrow c^+} f(x) = L$$

$$\lim_{x \rightarrow c^-} f(x) = L$$

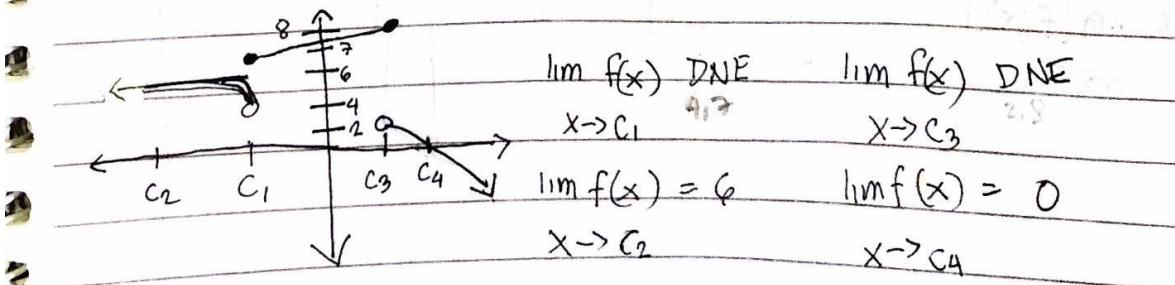
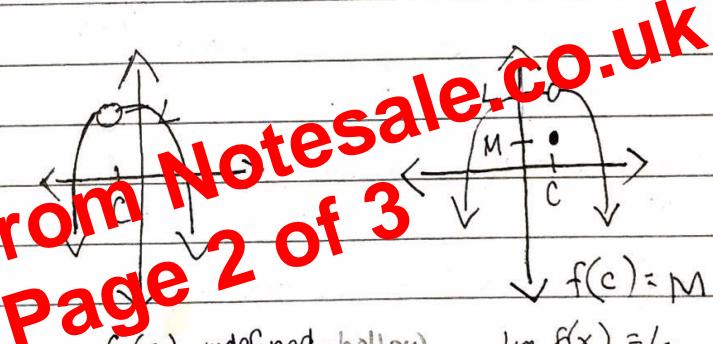
$$x \rightarrow c^-$$

$$\lim_{x \rightarrow c^+} f(x) = L$$

$$x \rightarrow c^+$$

$$\lim_{x \rightarrow c} f(x) = L$$

$$x \rightarrow c$$



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Page 2 of 3