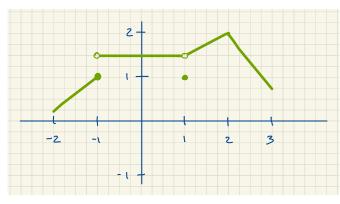
Use the graph of y = f(x) shown below to find the following

- $1. \lim_{x \to 1} f(x)$
- 2. f(1)
- 3. f(-1)
- 4. $\lim_{x \to -1^{-}} f(x)$
- $5. \lim_{x \to -1^+} f(x)$
- $6. \lim_{x \to -1} f(x)$



Graph of y = f(x)

$$\lim_{x\to 2}\frac{x^2+x-6}{x-2}=$$

- (a) 0
- (b) Does not exist
- (c) ∞
- (d) 5
- (e) 4

Let
$$f(x) = x^2 + x$$
. Then $\lim_{h \to 0} \frac{f(2+h) - f(2)}{h} =$

- (a) 1
- (b) 5
- (c) Does not exist
- (d) 0
- (e) -3

Let
$$f(x) = x^2 + x$$
. Then $\lim_{x \to 2} \frac{f(x) - 2}{x - 2} =$

- (a) 1
- (b) 5
- (c) Does not exist
- (d) 0
- (e) -3