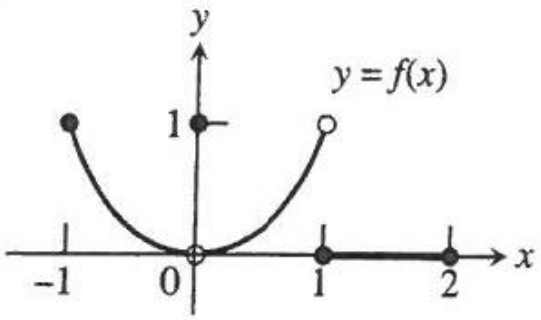
In Exercises 43 and 44, which of the statements are true about the function $y = f(x)$ graphed there, and which are false?

43.



(a) $\lim_{x \to -1^+} f(x) = 1$

(b) $\lim_{x \to 0^-} f(x) = 0$

(c) $\lim_{x \to 0^-} f(x) = 1$

(d) $\lim_{x \to 0^-} f(x) = \lim_{x \to 0^+} f(x)$

(e) $\lim_{x \to 0} f(x)$ exists

(f) $\lim_{x \to 0} f(x) = 0$

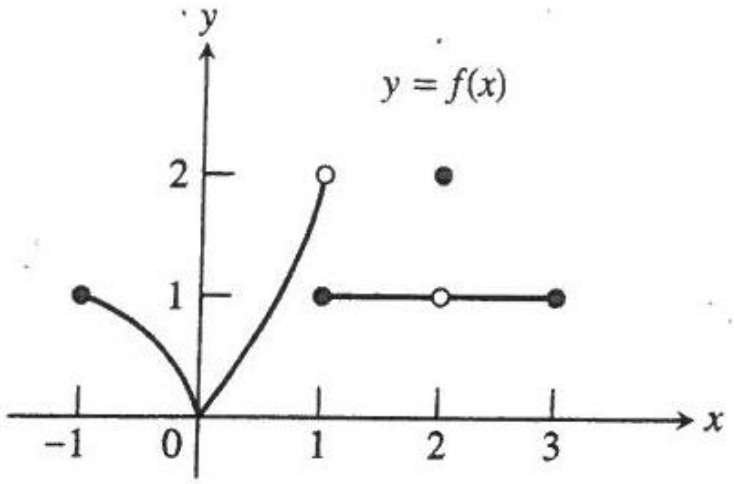
(g) $\lim_{x \to 0} f(x) = 1$

(h) $\lim_{x \to 1} f(x) = 1$

(i) $\lim_{x \to 1} f(x) = 0$

(j) $\lim_{x \to 2^-} f(x) = 2$

44.



(a) $\lim_{x \to -1^+} f(x) = 1$

(b) $\lim_{x \to 2} f(x)$ does not exist.

(c) $\lim_{x \to 2} f(x) = 2$

(d) $\lim_{x \to 1^-} f(x) = 2$

(e) $\lim_{x \to 1^+} f(x) = 1$

(f) $\lim_{x \to 1} f(x)$ does not exist.

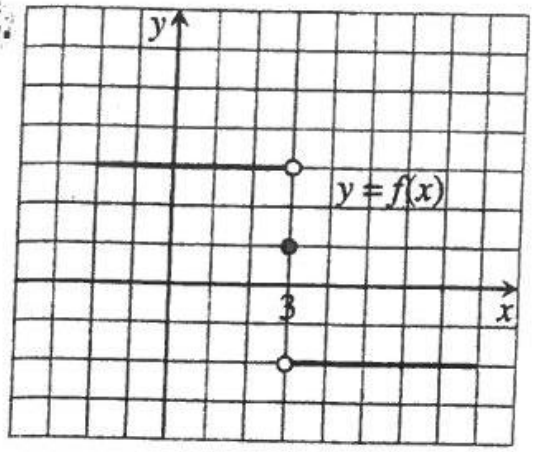
(g) $\lim_{x \to 0^+} f(x) = \lim_{x \to 0^-} f(x)$

(h) $\lim_{x \to c} f(x)$ exists at every c in $(-1, 1)$.

(i) $\lim_{x \to c} f(x)$ exists at every c in $(1, 3)$.

In Exercises 45–50, use the graph to estimate the limits and value of the function, or explain why the limits do not exist.

45.



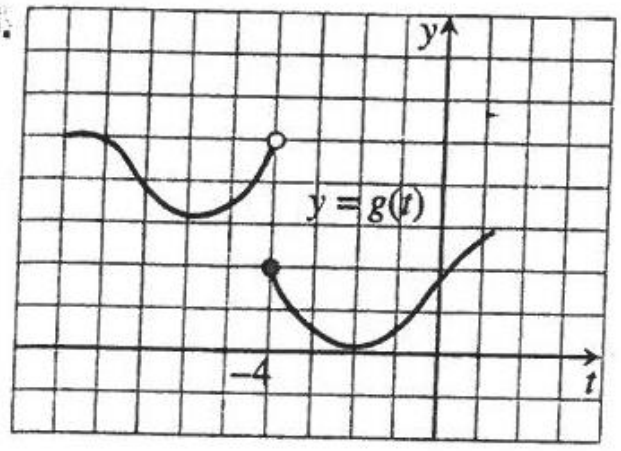
(a) $\lim_{x \to 3^-} f(x)$

(b) $\lim_{x \to 3^+} f(x)$

(c) $\lim_{x \to 3} f(x)$

(d) $f(3)$

46.



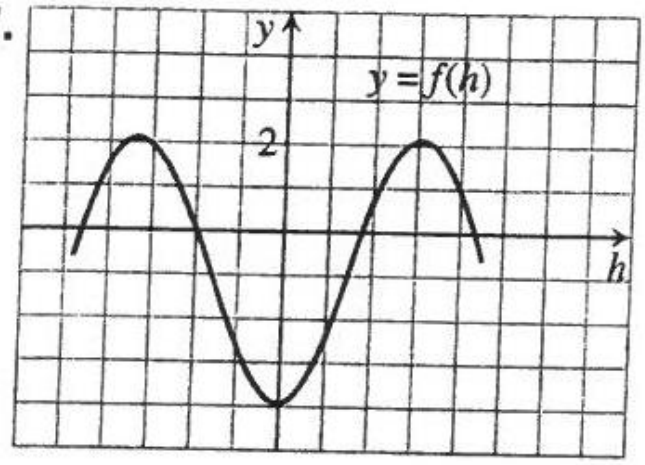
(a) $\lim_{t \to -4^-} g(t)$

(b) $\lim_{t \to -4^+} g(t)$

(c) $\lim_{t \to -4} g(t)$

(d) $g(-4)$

47.



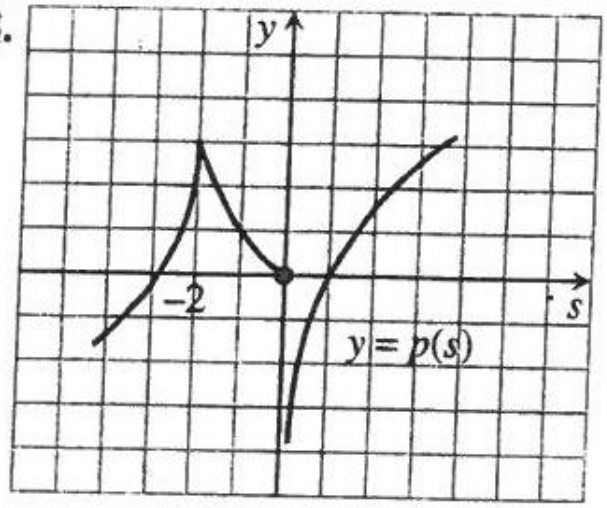
(a) $\lim_{h \to 0^-} f(h)$

(b) $\lim_{h \to 0^+} f(h)$

(c) $\lim_{h \to 0} f(h)$

(d) $f(0)$

48.



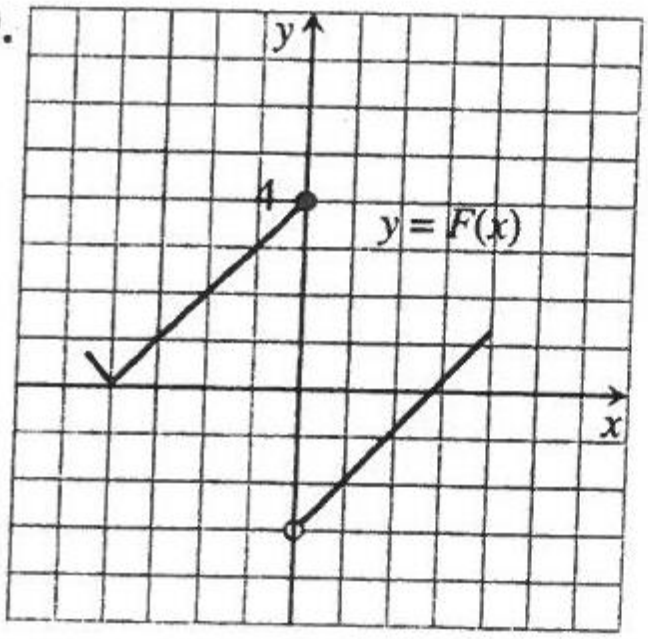
(a) $\lim_{s \to -2^-} p(s)$

(b) $\lim_{s \to -2^+} p(s)$

(c) $\lim_{s \to -2} p(s)$

(d) $p(-2)$

49.



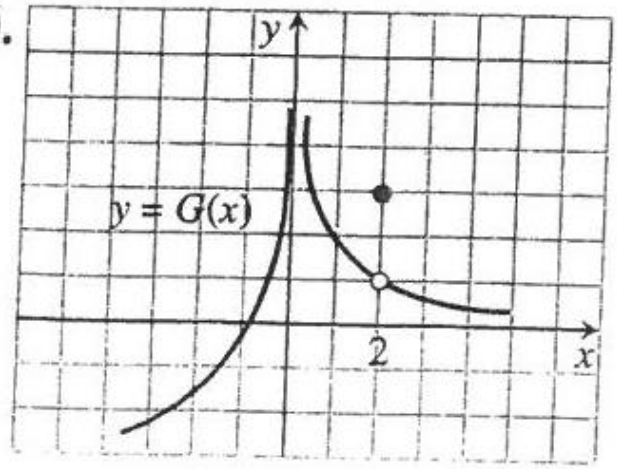
(a) $\lim_{x \to 0^-} F(x)$

(b) $\lim_{x \to 0^+} F(x)$

(c) $\lim_{x \to 0} F(x)$

(d) $F(0)$

50.



(a) $\lim_{x \to 2^-} G(x)$

(b) $\lim_{x \to 2^+} G(x)$

(c) $\lim_{x \to 2} G(x)$

(d) $G(2)$

Your Group is responsible for: #25, 37, 43, 49, 55a, 56c

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

All work should be completed in LARGE writing to encompass a majority of the page

These will be scanned in and posted as an example of student work

DO NOT WRITE NAMES ON ANY PAGES Attach a card with group membership with a paper clip NOT a staple

Your Group is responsible for: #26, 38, 44, 50, 55b, 56d

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

All work should be completed in LARGE writing to encompass a majority of the page

These will be scanned in and posted as an example of student work

DO NOT WRITE NAMES ON ANY PAGES Attach a card with group membership with a paper clip NOT a staple

Your Group is responsible for: #27, 39, 45, 51, 55c, 57

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

All work should be completed in LARGE writing to encompass a majority of the page

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DO NOT WRITE NAMES ON ANY PAGES Attach a card with group membership with a paper clip NOT a staple

Your Group is responsible for: #28, 40, 46, 52, 55d, 58

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

All work should be completed in LARGE writing to encompass a majority of the page

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Your Group is responsible for: #29, 41, 47, 53, 56a, 59

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

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DO NOT WRITE NAMES ON ANY PAGES Attach a card with group membership with a paper clip NOT a staple

Your Group is responsible for: #34, 42, 48, 54, 56b, 60

Group membership must include at least two people but no more than four people

Each problem is to be completed on a single piece of paper

All work needs to be shown and logic justified and supported

All limits must be accompanied by a sketch of a graph with important points and features labelled

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