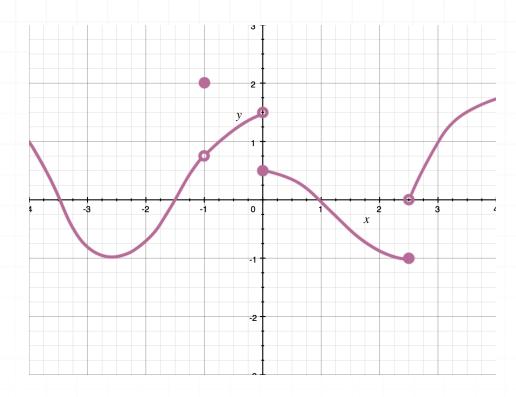
Topic: Crazy graphs

Question: Use the graph to find the function's limit as $x \to -1^+$.



Answer choices:

$$A \qquad \lim_{x \to -1^+} f(x) = 0$$

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

C
$$\lim_{x \to -1^+} f(x) = \frac{3}{4}$$

D
$$\lim_{x \to -1^+} f(x) = \frac{1}{2}$$

Solution: C

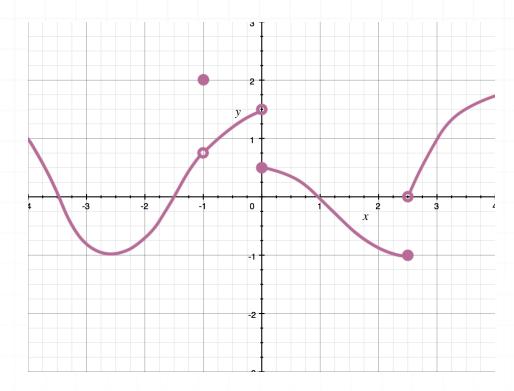
Using the graph, we'll look at the limit as x gets close to -1 from the right side. We can see that

$$\lim_{x \to -1^+} f(x) = \frac{3}{4}$$



Topic: Crazy graphs

Question: Use the graph to find the function's limit as $x \to 0^-$ and $x \to 0^+$.



Answer choices:

$$A \qquad \lim_{x \to 0^-} f(x) = -\frac{1}{2}$$

$$\lim_{x \to 0^+} f(x) = -\frac{3}{2}$$

$$\lim_{x \to 0^{-}} f(x) = -\frac{3}{2}$$

$$\lim_{x \to 0^+} f(x) = -\frac{1}{2}$$

$$C \qquad \lim_{x \to 0^{-}} f(x) = \frac{1}{2}$$

$$\lim_{x \to 0^+} f(x) = \frac{3}{2}$$

$$D \qquad \lim_{x \to 0^{-}} f(x) = \frac{3}{2}$$

$$\lim_{x \to 0^+} f(x) = \frac{1}{2}$$

Solution: D

Using the graph, we'll look at the limit as x gets close to 0 from the left side. We can see that

$$\lim_{x \to 0^-} f(x) = \frac{3}{2}$$

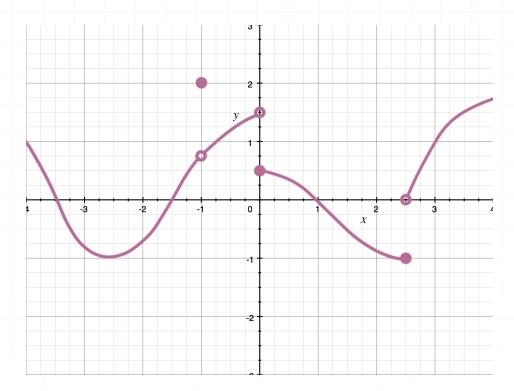
And as x gets close to 0 from the right side, we can see that

$$\lim_{x \to 0^+} f(x) = \frac{1}{2}$$



Topic: Crazy graphs

Question: Use the graph to find the function's limit as $x \to (5/2)^-$ and $x \to (5/2)^+$.



Answer choices:

$$\lim_{x \to \frac{5}{2}^+} f(x) = 0$$

$$\lim_{x \to \frac{5}{2}^{-}} f(x) = 0$$

$$\lim_{x \to \frac{5}{2}^+} f(x) = -1$$

$$\lim_{x \to \frac{5}{2}^{-}} f(x) = 1$$

$$\lim_{x \to \frac{5}{2}^+} f(x) = 0$$

$$\lim_{x \to \frac{5}{2}^{-}} f(x) = 0$$

$$\lim_{x \to \frac{5}{2}^+} f(x) = 1$$

Solution: A

Using the graph, we'll look at the limit as x gets close to 5/2 from the left side. We can see that

$$\lim_{x \to \frac{5}{2}^{-}} f(x) = -1$$

And as x gets close to 5/2 from the right side, we can see that

$$\lim_{x \to \frac{5}{2}^+} f(x) = 0$$

