



€ CollegeBoard

© 2017 College Board

| A. $\lim_{x\to 2^+} f(x)$ | B. $\lim_{x\to\infty} f(x)$ |
|-----------------------------|-----------------------------|
| C. $\lim_{x\to -2} f(x)$ | D. $\lim_{x\to 0} f(x)$ |
| E. $\lim_{x\to 2^-} f(x)$ | F. $\lim_{x\to 2} f(x)$ |
| G. $\lim_{x\to\infty} f(x)$ | H. $\lim_{x \to 0^+} f(x)$ |



| Ι. | 11. |
|--|--|
| As the values of x get closer and closer to 2 from the left-hand side (that is, values like 1.9, 1.99, etc.), this is what the values of $f(x)$ are approaching. | As the values of x get closer and closer to -2, both from the left-hand side and the right-hand side, this is what the values of f(x) are approaching. |
| . | IV. |
| As the values of x get closer and closer to 0, both from the left-hand side and the right-hand side, this is what the values of f(x) are approaching. | As the values of x get closer and closer to 2, both from the left-hand side and the right-hand side, this is what the values of f(x) are approaching. |
| V. | VI. |
| As the values of x move farther and farther to the left, this is what the values of $f(x)$ are approaching. | As the values of x get closer and closer to 0 from the right-hand side (that is, values like 0.1, 0.01, etc.), this is what the values of $f(x)$ are approaching. |
| VII. | VIII. |
| As the values of x get closer and closer to 2 from the right-hand side (that is, values like 2.1, 2.01, etc.), this is what the values of $f(x)$ are approaching. | As the values of x move farther and farther to the right, this is what the values of $f(x)$ are approaching. |

