

Pre-Calculus

KEY

Determine the behavior of the function at the vertical asymptote(s) using a sign analysis.

1. at $x = -2$, negative on the left and positive on the right
2. at $x = -7$, positive on the left and negative on the right
3. at $x = -6$, positive on the left and negative on the right
4. at $x = -\frac{5}{2}$, positive on the left and negative on the right
5. at $x = -6$, negative on the left and positive on the right
at $x = 6$, negative on the left and positive on the right
6. at $x = -2$, negative on the left and positive on the right
at $x = 2$, positive on the left and negative on the right
7. at $x = 2$, positive on the left and negative on the right
8. at $x = -11$, negative on the left and positive on the right
9. at $x = -4$, positive on the left and negative on the right
at $x = 4$, negative on the left and positive on the right
10. at $x = -2$, negative on the left and positive on the right
at $x = 2$, positive on the left and negative on the right
11. at $x = -3$, negative on the left and positive on the right
at $x = 5$, negative on the left and positive on the right
12. at $x = -8$, positive on the left and negative on the right
at $x = 4$, positive on the left and negative on the right