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 $x = 0$, negative on the left and positive on the right

3. at $x = 0$, negative on the left and negative on the right

4. at $x = -3$, positive on the left and negative on the right
    at $x = 3$, negative on the left and positive on the right

5. at $x = -2$, positive on the left and negative on the right
    at $x = 2$, negative on the left and positive on the right

6. at $x = -3$, negative on the left and positive on the right
    at $x = 3$, negative on the left and positive on the right

7. at $x = -2$, positive on the left and negative on the right
    at $x = 2$, positive on the left and negative on the right

8. at $x = 2$, negative on the left and negative on the right

9. at $x = 0$, positive on the left and negative on the right
    at $x = 4$, negative on the left and positive on the right

10. at $x = 0$, positive on the left and positive on the right
    at $x = 2$, positive on the left and negative on the right

11. at $x = -1$, negative on the left and positive on the right
    at $x = 2$, negative on the left and positive on the right