These limits are wacky. Help me understand the key. All I have is the answers and not the reasons why the answers are what they are. Do this by providing the correct mathematical reasons/work explaining how one gets the correct answer.

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

2. \( \lim_{x \to 2^-} \frac{g(x)}{f(x)} = \lim_{x \to 2^+} \frac{g(x)}{f(x)} = \lim_{x \to 2^-} g(x) \cdot f(x) = 0 \)

3. \( \lim_{x \to -1} (f(x) + g(x)) = 0 \)

4. \( \lim_{x \to -1} \frac{f(x)}{g(x)} = -1 \)

5. \( \lim_{x \to 2} (f(x)g(x)) = 0 \)

6. \( \lim_{x \to 3^-} f(g(x)) = 2 \)
7. \( \lim_{x \to 1^+} f(g(x)) = 2 \)

8. \( \lim_{x \to -2^-} g(f(x)) = -1 \) (and NOT -2)

9. \( \lim_{x \to 1^-} f(g(x)) = 2 \) (and NOT 1)

10. \( \lim_{x \to 2^-} \frac{f(x)}{g(x)} = -\infty \)

11. \( \lim_{x \to 2^+} \frac{f(x)}{g(x)} = -\infty \)

12. \( \lim_{x \to 2} \frac{f(x)}{g(x)} = -\infty \)