1. Derive the exact value of the limits:

(a) \( \lim_{x \to -3} \frac{8x^2 + 12x - 36}{x^3 + 27} \)

(b) \( \lim_{x \to 9} \frac{1 - 1}{\sqrt{x} - 3} \)
2. Suppose \( 3x - 1 \leq f(x) \leq 9 - x^2 \), for \(-5 \leq x \leq 2\). Graph the outer two functions on the interval. Then explain which one-sided limits can be determined and compute these limits.

3. Evaluate the limits.

(a) \[ \lim_{x \to -4^-} \frac{8|x + 4|}{x + 4} = \]

(b) \[ \lim_{x \to -4^+} \frac{8|x + 4|}{x + 4} = \]

(c) \[ \lim_{x \to -4} \frac{8|x + 4|}{x + 4} = \]