1. Evaluate each limit. Show your work or explain your reasoning.

(a)
$$\lim_{x \to 8} (1 + \sqrt[3]{x})(2 - x^2)$$

(b)
$$\lim_{x \to 4} \frac{x^2 - 4x}{x^2 - x - 12}$$

(c)
$$\lim_{x \to 4} \frac{x^2}{x^2 - x - 12}$$

(d)
$$\lim_{x \to -3} \frac{\frac{1}{3} + \frac{1}{x}}{x+3}$$

(e)
$$\lim_{x \to 0^-} \frac{|x|}{x}$$

(f)
$$\lim_{x \to 0} \frac{|x|}{x}$$

(g)
$$\lim_{x \to 5^-} \frac{3x - 15}{|5 - x|}$$

(h)
$$\lim_{x \to \pi} \frac{2x}{\tan^2 x}$$