1. Evaluate the limits

a) 
$$\lim_{x \to -1} \frac{8\sqrt{x+5} - 16}{x+1}$$

$$b) \lim_{h \to 0} \frac{\sin(x+h)\cos(x+h) - \sin x \cos x}{h}$$

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2. Evaluate the limit below

$$\lim_{x \to 0} \frac{1 - \cos(4x)}{(x+1)\ln(x+1) - x}$$