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**SQ 4.7** 

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_

Instructions: Though calculators can be used for all the questions, all problems require you to show your work. Any answer without proper justification will receive **ZERO** credit. Only **EXACT** answers will receive full credit unless otherwise noted.

1. Determine 
$$\lim_{x\to 0} \frac{1-\cos 3x}{8x^2}$$

2. Determine 
$$\lim_{x\to 0^+} x^{2x}$$