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**MATH 2211**  
**SECS 3.3, 3.4 TRIG FUNCTIONS & CHAIN RULE**

NAME\_\_\_\_\_

1. Find the limit involving a trig function. Show all work. **Use the special trig limits**

a)  $\lim_{x \rightarrow 0} \frac{\sin(7x)}{x}$

2. Use the chain rule where needed below to find each derivative.

A.  $y = (-3x + 10)^4$

B.  $q = \sqrt{16r - r^5}$

C

$$y = \cos^3(\pi t - 16) = [\cos(\pi t - 16)]^3$$



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