Calculus	II	Quiz 9	Name
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Calculus II. Quiz 9. Name \_\_\_\_\_ Time\_\_\_\_\_ Show all work for full or partial credit. Put a box around your final answer in each part.

1. Find a Maclaurin series for the following functions, by starting with a known fact from the list of known Maclaurin series. You don't need to simplify.

(a) 
$$f(x) = e^{3x^2}$$

(b) 
$$f(x) = x \cos(3x)$$

2. Find the n=3 term of the Taylor series for  $f(x)=x^3+e^{2x}$  centered at a=5.