1. Use the Maclaurin polynomial for  $e^x$  to find a Maclaurin polynomial for f(x). Include at least five non-zero terms.

What is 
$$f'''(0)$$
?  $f^{(7)}(0)$ ?  $f^{(8)}(0)$ ?

2. Use your Maclaurin polynomial for f(x) to find the Maclaurin polynomial for g(x)

What is 
$$g^{(6)}(0)$$
?  $g^{(7)}(0)$ ?  $g^{(328)}(0)$ ?