Math 2260 Quiz 20.5 (Practice)

Name _____

Points will be deducted for untidy or disorganized answers

1. Find the Taylor series generated by f at $x = a$.

   (a) $f(x) = e^{x/2}, \quad a = 0$

   (b) $f(x) = x^4 + x^2 + 1, \quad a = -2$

   (c) $f(x) = x^{-2}, \quad a = 1$

2. (a) Find the value of $f^{(17)}(0)$ when $f(x) = e^{x/2}$.

   (b) Find the value of $f^{(17)}(1)$ when $f(x) = x^{-2}$.