Student: Arfaz Hossain Instructor: Muhammad Awais Assignment: HW-7 [Sections 10.7 & Course: Math 101 A04 Spring 2022 10.8]

19. Find the Taylor polynomials of orders 0, 1, 2, and 3 generated by f at a.

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

 $P_0(x) = 1$ (Simplify your answer.)

$$P_1(x) = 1 + 2x$$

$$P_2(x) = 1 + 2x + 2x^2$$

$$P_3(x) = 1 + 2x + 2x^2 + \frac{4}{3}x^3$$