

PRACTICE EXAM #2 ANSWERS

1. \( y = 2xe^{3x} \).

2. 484

3. The equation is exact. The solution of the differential equation is

\[ e^x \sin y + 2y \cos x = C. \]

4. \( y = c_1 e^{-4x} \cos 3x + c_2 e^{-4x} \sin 3x. \)