

1. Find $\int_0^{\pi/2} e^x \cos x \, dx$

Answer: _____

2. Find $\int \tan^5 x \sec x \, dx$

Answer: _____

3. True or False?

a) If $\sec \theta = \frac{5}{3}$, then $\cot \theta = \frac{3}{4}$.

Answer: _____

b) $\int e^{x^2} \, dx = \frac{e^{x^2}}{2x}$

Answer: _____