

MTH 1126 Test #3

SPRING 2017

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Name _____

Show **CLEARLY** how you arrive at your answers.

1. $\int x \cos(x) dx =$

2. $\lim_{x \rightarrow 0} \frac{e^x - e^{-x}}{x} =$

3. $\int \frac{5x-4}{(x^2-x-2)} dx =$

4. $\int \sin^3(x) \cos^4(x) dx =$

5. $\int \frac{1}{x^2 \sqrt{9-16x^2}} dx =$

6. $\lim_{x \rightarrow \infty} \frac{e^x}{x^2} =$

7. $\int \cos^2(x) dx =$