

MTH 1126 Test #3 (11am Class)

SPRING 2022

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Name _____

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

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

2. $\lim_{x \rightarrow 0} \frac{\sin(x)}{x} =$

3. $\int \frac{3x+20}{x^2-3x-10} dx =$

4. $\int \sin^7(x) \cos^3(x) dx =$

5. $\int x\sqrt{4-9x^2} dx =$

6. $\lim_{x \rightarrow 0} \frac{e^x - 1}{\ln(x+1)} =$

7. $\int e^x \sin(x) dx =$

WOW! Extra (10 pts - all or nothing)

$$\int x \arcsin(x) dx =$$