

MTH 1126 - Test #3 - 9am Class
SPRING 2024

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Name _____

Show CLEARLY how you arrive at your answers.

1. $\int \frac{2x-22}{x^2-x-12} dx =$

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

3. $\int \frac{3x^2+4x+27}{x^3+9x} dx =$

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

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

6. $\lim_{x \rightarrow 0^+} x^2 \ln(x) =$

7. $\int x \sin(2x) dx =$

WOW! Extra (10 pts - all or nothing)

$$\int \frac{\sqrt{x^2-9}}{x} dx$$

WOW! Extra (5 pts - all or nothing)

$$\int \frac{x^2}{x^2+4} dx$$