

MTH 1126 Test #3

FALL 2015

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Name _____

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

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

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

3. $\int \frac{7x+11}{x^2+x-6} dx =$

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

5. $\int \frac{1}{\sqrt{4+9x^2}} dx =$

Choose one exercise from exercises 6 and 7.

6. $\int \frac{x-18}{(x^2+4)(x-2)} dx =$

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

8. $\int x \ln(x) dx =$

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