Circle your	<b>Instructor:</b>	Faudree,	Williams,	Zirbes

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Name: \_\_\_\_\_

This is a 30 minute quiz. There are 15 problems. Books, notes, calculators or any other aids are prohibited. Calculators and notes are not allowed. **Your answers should be simplified unless otherwise stated.** There is no partial credit. If you have any questions, please raise your hand.

## Circle your final answer.

For each function below, find the definite or indefinite integral.

1. 
$$\int_0^1 (1 + 8v^3 - 18v^8) dv$$

$$2. \int \sin(3\pi x) dx$$

$$3. \int \frac{5x^2}{2+x^3} dx$$

4. 
$$\int \sec \theta (\sec \theta + \tan \theta) d\theta$$

$$5. \int_0^1 \frac{9}{1+x^2} dx$$

$$6. \int \frac{\sin x}{\cos^4 x} dx$$

$$7. \int \frac{e^{1/x}}{x^2} dx$$

$$8. \int \frac{4x}{\sqrt{1-x^2}} dx$$

9. 
$$\int_0^1 (3+9^x) \, dx$$

$$10. \int \left(\sqrt{2x} + \frac{x}{5} + \frac{5}{x}\right) dx$$

11. 
$$\int e^{-6r} dr$$

12. 
$$\int \frac{1}{(7x-1)^{1/3}} dx$$

$$13. \int \frac{t^2 - 2}{\sqrt{t}} dt$$

$$14. \int \frac{\ln x}{x} dx$$

15. 
$$\int \cos x \cos(\sin x) dx$$