

Name _____

BC Calculus – Integrals

Evaluate the integral.

$$1. \int \frac{6x+1}{5x+2} dx$$

$$2. \int_1^{\infty} x^{-\frac{3}{2}} dx$$

$$3. \int x^4 \ln x dx$$

$$4. \int \frac{1}{x^2 - 4x - 12} dx$$

$$5. \int x \sin x dx$$

$$6. \int_0^2 \frac{1}{(x-1)^2} dx$$

$$7. \int \frac{dx}{x^2 + x}$$

$$8. \int \frac{x^2 + 2x}{x+2} dx$$

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

$$10. \int x^2 e^{-3x} dx$$

$$11. \int \frac{\ln(\ln x)}{x} dx$$

$$12. \int \cos^3 x dx$$

$$13. \int \cos^2 x \sin^2 x dx$$

$$14. \int_{-\infty}^0 e^{3x} dx$$