5.1 Antiderivatives and Indefinite Integration

Name: Date: June 15, 2015

P 11. Find the indefinite integral.
$$\int x + 7 \; dx$$

P 12. Find the indefinite integral.
$$\int 8x^3 - 9x^2 + 4 \; dx$$

P 14. Find the indefinite integral.
$$\int \sqrt{x} + \frac{1}{2\sqrt{x}} \; dx$$

P 16. Find the indefinite integral.
$$\int \sqrt[4]{x^3} + 1 \ dx$$

P 18. Find the indefinite integral.
$$\int \frac{3}{x^7} \ dx$$

P 20. Find the indefinite integral.
$$\int \frac{x^4 - 3x^2 + 5}{x^4} \ dx$$

P 22. Find the indefinite integral.
$$\int (4t^2 + 3)^2 \, dt$$

P 24. Find the indefinite integral.
$$\int \theta^2 + \sec^2 \theta \, d\theta$$

P 26. Find the indefinite integral.
$$\int \sec y (\tan y - \sec y) \, dy$$

P 28. Find the indefinite integral.
$$\int 4x - \csc^2 x \; dx$$

P 30. Find the indefinite integral.
$$\int \cos x + 3^x \; dx$$