

7.4 Algebraic Identities and Trigonometric Substitutions

Name:

Date:

P 20. Find

$$\int \frac{1}{\sqrt{9-x^2}} dx$$

P 21. Find

$$\int \frac{1}{\sqrt{4x - 3 - x^2}} dx$$

P 22. Find

$$\int \frac{1}{x^2 + 4x + 5} dx$$

P 25. Find

$$\int \frac{12x - 2}{(3x + 2)(x - 1)} dx$$

P 36. Find

$$\int \frac{z-1}{\sqrt{2z-z^2}} dz$$

P 55. Find

$$\int \frac{1}{x^2\sqrt{1+x^2}} dx$$

P 59. Find

$$\int \frac{1}{x\sqrt{9-4x^2}} dx$$