

7.3 Trigonometric Substitution - Extra Practice Problems

1. $\int \sqrt{4 - x^2} dx.$
2. $\int_0^1 x^3 \sqrt{1 - x^2}.$
3. $\int \sqrt{1 - 4x^2} dx.$
4. $\int \sqrt{5 + 4x - x^2} dx.$
5. $\int \frac{\sqrt{x^2 - 25}}{x^3} dx.$
6. $\int \frac{dx}{\sqrt{x^2 - 2x + 5}} dx.$
7. $\int \frac{dx}{x^2 \sqrt{x^2 + 4}} dx.$
8. $\int \frac{x}{\sqrt{x^2 + 4}} dx.$
9. $\int \frac{dx}{\sqrt{x^2 - 2x - 15}} dx.$
10. $\int \frac{1}{(x^2 - 25)\sqrt{x^2 - 25}} dx.$