

Integrate each of the following.

1. $\int \frac{dx}{\sqrt{4-x^2}} = \underline{\hspace{2cm}}$

2. $\int \frac{xdx}{\sqrt{4-x^2}} = \underline{\hspace{2cm}}$

3. $\int \frac{x^2 dx}{\sqrt{4-x^2}} = \underline{\hspace{2cm}}$

4. $\int \sqrt{4-x^2} dx = \underline{\hspace{2cm}}$

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Integrate each of the following.

5. $\int \frac{dx}{x^2+9} = \underline{\hspace{2cm}}$

6. $\int \frac{dx}{4+x^2} = \underline{\hspace{2cm}}$

7. $\int \frac{dx}{\sqrt{9-4x^2}} = \underline{\hspace{2cm}}$

8. $\int \frac{dx}{9+4x^2} = \underline{\hspace{2cm}}$