



Problem Set 34: Inverse Trig Integrals

Evaluate the following integrals using inverse trig rules.

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

2. $\int \frac{1}{12+16x^2} dx$

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3. $\int \frac{-1}{\sqrt{2-10x^2}} dx$

4. $\int \frac{4}{x\sqrt{x^2-25}} dx$

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

6. $\int \frac{5}{x\sqrt{25x^2-1}} dx$

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7. $\int \frac{1}{x \sqrt{3 - \ln^2 x}} dx$