













Find the indefinite integral.
34)
$$2\int \frac{1}{2} \sec(\frac{x}{2}) dx = \frac{x - \frac{x}{2}}{du - \frac{1}{2}} dx$$

 $2\int \sec u \, du$
 $\frac{2\ln|\sec(\frac{x}{2} + \tan(\frac{x}{2})| + c)}{\ln(\sec(\frac{x}{2} + \tan(\frac{x}{2}))^2 + c)}$

Solve the differential equation.
44)
$$\frac{dy}{dx} = \frac{2x}{x^2 - 9}$$
; (0, 4)
 $\int dy = \int \frac{2x}{x^2 - 9} dx$ $u = x^2 - 9$
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 $dy = \frac{2x}{y$

Evaluate the definite integral. Check using the graphing calculator.

$$54) \oint_{-1} \frac{1}{2x+3} dx = \oint_{-1} \int_{-1}^{1} du = \oint_{-1} h[u] \int_{-1}^{5} du = \int_{-1} h[u] \int_{-1} h[u] \int_{-1} \int_{-$$





