8.5 Partial Fractions

Name: Date: July 14, 2015

P 6. Find the indefinite integral.
$$\int \frac{2}{9x^2 - 1} \, dx$$

P 8. Find the indefinite integral.
$$\int \frac{3 - x}{3x^2 - 2x - 1} \, dx$$

P 10. Find the indefinite integral.

$$\int \frac{x^3 - x + 3}{x^2 + x - 2}\, dx$$

P 16. Find the indefinite integral.

$$\int \frac{8x}{x^3 + x^2 - x - 1}\, dx$$

P 28. Find the indefinite integral.

$$\int \frac{5 \cos x}{\sin^2 x + 3 \sin x - 4} \, dx$$

P 32. Find the indefinite integral.

$$\int \frac{e^x}{(e^{2x} + 1)(e^x - 1)} \, dx$$

P 44. Find the area of the region bounded by the graphs of $y = 7/(16 - x^2)$ and $y = 1$.

P 48. Consider the region bounded by the graphs of

$$y^2 = \frac{(2-x)^2}{(1+x)^2}$$

on the interval $[0, 1]$. Find the volume of the solid generated by revolving this region about the x-axis.