

Antiderivatives/Integrations Homework

Date _____ Period _____

Evaluate each indefinite integral.

1) $\int (12x^2 + x^{-2} - 6x^{-4}) dx$

2) $\int (6x - 12x^{-4} - 16x^{-5}) dx$

3) $\int (12x^3 - 4x^{-5}) dx$

4) $\int \frac{4x^5 - 4x - 3}{x^4} dx$

5) $\int \left(18x^5 - \frac{20\sqrt[3]{x}}{3} \right) dx$

6) $\int \left(-\frac{6}{x^3} - \frac{20}{x^5} \right) dx$

7) $\int \frac{15x^5 \sqrt[4]{x} - 32}{4x^5} dx$

8) $\int \left(5x^4 - 5 + \frac{15}{x^4} \right) dx$

9) $\int 4\sin x dx$

10) $\int -2\sec^2 x dx$