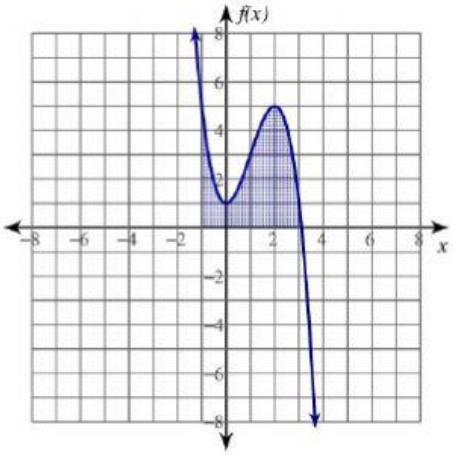
Name_____

Fundamental Theorem of Calculus

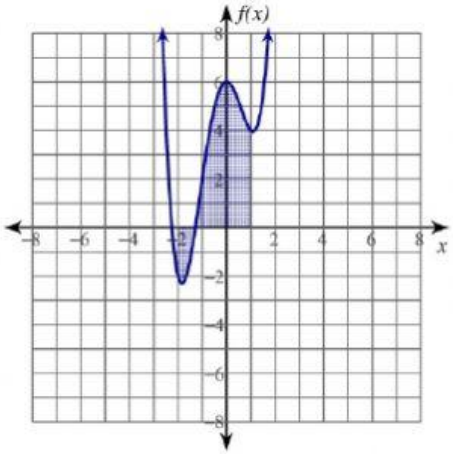
Date_____ Period___

Evaluate each definite integral.

1) $\int_{-1}^{3} (-x^3 + 3x^2 + 1)\,dx$



2) $\int_{-2}^{1} (x^4 + x^3 - 4x^2 + 6)\,dx$



3) $\int_{1}^{3} (2x^2 - 12x + 13)\,dx$

4) $\int_{0}^{3} (-x^3 + 3x^2 - 2)\,dx$

5) $\int_{-1}^{0} (x^5 - 4x^3 + 4x + 4)\,dx$

6) $\int_{-3}^{0} 4x^{\frac{1}{3}}\,dx$

LIVEWORKSHEETS

7) $\int_{-4}^{-1} -\frac{4}{x^3}\,dx$

8) $\int_{-3}^{-1} \frac{4}{x}\,dx$

9.) $\int_{\sqrt{2}}^{2} \frac{1}{x\sqrt{x^2-1}}\,dx$

10.) $\int_{-1}^{2} \frac{2}{(2x+4)^3}\,dx$

11.) $\int_{-4}^{-2} \left(-x + \left|-3x-9\right|\right)\,dx$

12.) $\int_{-5}^{1} -\left|x^2+4x\right|\,dx$

LIVEWORKSHEETS