

Ch 4.4 FTC #1

Date _____ Period _____

Evaluate each definite integral. Round all answers to three decimal places.

1)
$$\int_{-\frac{2\pi}{3}}^0 -\cos x \, dx$$

2)
$$\int_0^2 (x^4 - 4x^2 - 3x + 2) \, dx$$

3)
$$\int_2^5 \frac{2}{x^3} \, dx$$

4)
$$\int_{-\frac{\pi}{6}}^0 \sec x \cdot \tan x \, dx$$

5)
$$\int_{-6}^{-1} -2x^{\frac{1}{3}} \, dx$$

6)
$$\int_{-2}^1 (x^5 - 4x^3 + 3x) \, dx$$

7)
$$\int_{-6}^{-1} \left(-\frac{x^2}{2} - 2x + 1 \right) \, dx$$

8)
$$\int_0^{\frac{\pi}{2}} -2\sin x \, dx$$