

Business Calculus
Mett

Math 121
April 18, 2003

NAME: _____

row: _____ (count from your left)

1. Find the profit function that corresponds to a marginal profit of

$$\frac{dP}{dx} = -20x + 800$$

with the added condition that $P(10) = 600$.

2. $\int 7x\sqrt[3]{4-x^2} dx =$ _____

3. $\int \frac{6x^2}{x^3+4} dx =$ _____

ANSWERS:

1. $P(x) = -10x^2 + 800x - 6400$

2. $-\frac{21}{8} (4-x^2)^{4/3} + C$

3. $2 \ln|x^3+4| + C$