Section 7.1 Worksheet

1. Find the following indefinite integrals.

(a)
$$\int (10u^{-3.5} + \pi u^{-1}) du$$

(b)
$$\int \frac{e+2t^3}{4t} dt$$

(b) $\int \frac{e+2t^3}{4t} dt$ 2. The marginal profit, in dollars, for Brie cheese sold at a cheese store is given by

$$P'(x) = x(50x^2 + 30x),$$

where x is the amount of cheese sold, in hundreds of pounds. The "profit" is -\$40 when no cheese is sold.

(a) Find the profit function.

(b) Find the profit from selling 200 lbs of Brie cheese.