

## Section 7.1 Worksheet

1. Find the following indefinite integrals.

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

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

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.