

Name: _____

Math 211 Quiz 8

Section: 322 323

Nov 15, 2012

1. (15 pts) Find the general indefinite integral.

a. $\int (3\sqrt{t} + \frac{1}{2\sqrt{t}}) dt$

b. $\int 4e^{-2x} dx$

c. $\int \frac{2 + 3y}{4y} dy$

2. (5 pts) An object is moving along a straight path that runs north and south. Its velocity, in feet per minute, is given by

$$v(t) = 18 - 8t + 0.3t^2$$

where the north is the positive direction. After ten minutes, is the object north of its starting position, or south? *Hint: compute the net change of position.*