Name:
Clear your desk of everything excepts pens, pencils and erasers. If you have a question raise your hand and I will come to you.
1. (1 point) Fill-in-the-Blank. No work needed. No partial credit available. The indefinite integral $\int [x^2(\sqrt{x}-7)+\sec^2(x)]dx$
is 2. (1 point) Fill-in-the-Blank. No work needed. No partial credit available. The definite integral
$\int_{2}^{3} [x^{2}(\sqrt{x} - 7) + \sec^{2}(x)] dx$
is (You do not need to simplify your answer to the second question.)

- 3. An object moves along a line with velocity $v(t) = \sqrt{t} 1$, starting from a position 3 units to the right of the origin at time t = 0 s.
 - (a) (1 point) What is the position of the object at time t = 4 s?
 - (b) (2 points) What is the total distance traveled by the object over the time interval $0 \le t \le 4$?