Quiz 7

Answer each of the following. If you wish to receive partial credit, please show all work (NO WORK = NO CREDIT.) In particular, credit will not be given for a “correct answer” when the accompanying work is nonexistent.

1. Find the area between $f(x)$ and $g(x)$ given below.

$$f(x) = x^2 \text{ and } g(x) = \sqrt{x}$$

2. Find the average value of $f(x)$ from $x = e$ to $x = e^2$ if $f(x) = x^{-1}$. 
