Math 75B Quiz 9 (blue)	/24	Name: _
Fall 2008		
§§18-A, 18-B, 19-A (1), 20-A, 20-B (E), 4.7,	5.2~(S)	

Please read directions carefully. Raise your hand if you are not sure what a problem is asking.

You must explain your work thoroughly and unambiguously to receive full credit on questions or parts of questions designated as **Work and Answer**.

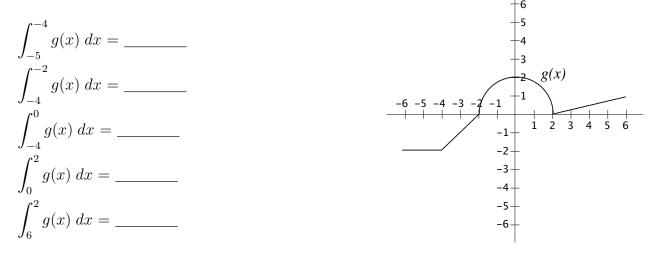
No calculators or notes are allowed on this quiz.

Please note that there is a problem on the back.

**Fill-In.** (8 points) For each function, fill in the general antiderivative. Don't forget the +C!

$f(x) \mid F$	$\Gamma(x)$	f(x)	F(x)
$7x^6$		$\sqrt{x}$	
$3e^x$		$\sin x$	
$\boxed{\frac{1}{x^2}}$		$\sec^2 x$	

**Graph.** (10 points) For the function g(x) graphed at right,



Work and Answer. (6 points) You must show all relevant work to receive full credit.

Use geometry to evaluate the integral  $\int_0^3 \sqrt{9-x^2} \, dx$ .