Costian	Name:		
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MATH 120A QUIZ 1 April 10, 2003

You may use a calculator to complete this quiz. No notes please. Show all work.

1. (4 points) Let $f(x) = 2x^2 - 5$. Compute and simplify the expression

$$\frac{f(x+h) - f(x)}{h}.$$

2.	(6 points) Let C be the circle centered at the origin with radius 6.	Let ℓ be the
	line with slope $\frac{1}{4}$ that passes through the points $(-8, -8)$ and $(a, 0)$,	for some real
	number a .	

(a) Find the value of the number a.

(b) Find the coordinates of the two points where ℓ and C intersect.