Name: _____

1. Let $f(x) = x^2 + 4x$. Use the *limit definition of the derivative* to find $f'(x)$, the derivative of f. Show all your work.

Name: _____

1. Let $f(x) = 3x - x^2$. Use the *limit definition of the derivative* to find $f'(x)$, the derivative of f. Show all your work.

Name: _____

1. Let $f(x) = x^2 + x + 1$. Use the *limit definition of the derivative* to find $f'(x)$, the derivative of f. Show all your work.

Name: _____

1. Let $f(x) = 3x^2 + 5$. Use the *limit definition of the derivative* to find $f'(x)$, the derivative of f. Show all your work.