Quiz 1

Show *all* your work algebraically for each and simplify. No credit is given without supporting work. There are *two* sides to this quiz.

1. [4] Simplify the following:

   $5 + 4(2^3 - 3^2)$

   $$\frac{x^4(x^2)^3}{x^3}$$

2. [3] Solve for m in
$$3(m + 4) + 2m = 4 - 3m$$

3. [3] Express fraction in lowest terms $\dfrac{x^2 - x - 2}{x^2 + 2x + 1}$.