NAME:

## MAC 1147 <br> Quiz One (Sample)

Please show all of your work in a NEAT and ORGANIZED fashion.

1. (3 points) Simplify the following radical expression:

$$
\sqrt[3]{16 x^{3} y z^{10}}
$$

2. (3 points) Perform the division and simplify:

$$
\frac{x+3}{x^{2}+3 x+2} \div \frac{x^{2}+4 x+3}{x^{2}+4 x+4}
$$

3. (a) (1 point) Evaluate the following expression at $x=-2$ :

$$
3 x^{2}-5 x-2
$$

(b) (2 points) Completely factor the following expression:

$$
3 x^{2}-5 x-2
$$

