

Roots Quick Quiz Review

1. Determine the roots, and multiplicities of each root, for the equations below.

A. $x^3 + 1000 = 0$.

B. $16x^3 - 54 = 0$

2. State the possible roots for the equation. Then determine the actual roots.

$$2x^3 + 2x^2 - 2x + 30 = 0$$

3. Write a polynomial that has roots $x = -4, -2 - i\sqrt{7}$.