Solve each polynomial equation by factoring. Find all real and/or imaginary/complex roots. Simplify answers.

(1)
$$x^3 - 216 = 0$$
 (2) $8x^3 + 125$ $\sqrt[3]{8x^3} = 3$ $\sqrt[3]{216} = 6$ $\sqrt[3]{8x^3} = 2x$ $\sqrt[3]{125} = 5$ $\sqrt[3]{1$