Polynomial and Rational Functions **PRACTICE**

A2RCC U8D6 Quiz #2

1. Prove the identity: 
2. Factor completely.

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| 1. $8x^{3}-27$
2. $169x^{2}-16y^{2}$
 | 1. $ x^{3}+216$
2. $x^{4}+64x$
 |

1. Find the inverse of and state the domain of 
2. Create the equation, in standard form, of a cubic whose x-intercepts are given by the set $\{ 3, -5, 2\}$ and which passes through the point $(4, -54).$

Sketch the graph indicating the window which shows all turning points, x-intercepts, and y-intercept.