

Unit 3: Polynomial Functions

1. The polynomial function $f(x) = x^3 - 4x^2 + 3x$ models a roller coaster's vertical height.
 - a. Find the x-intercepts and explain what they represent.
 - b. Describe the end behavior.
2. Create a 4th-degree polynomial with zeros at $x = -2, 0, 1, 3$. Write it in factored form.