

Advanced Algebra

Unit 5 Polynomial functions. Using the power rule to find the max and min of the given functions.

Unit 5: Assignment #4

Either use long division or your calculator to find the other roots.

1) $y = x^3 - 2x^2 - 40x - 64$ GIVEN roots is -4

Derivative Function and Solutions

Factored Equation:

Roots:

Accurate Sketch labeled with the Max and Min

2) $y = x^3 - 4x^2 - 20x + 48$ GIVEN ROOT is 6

Derivative Function and solutions

Factored Equation

Roots:

Accurate Sketch labeled with the max and min

3) $y=x^3+6x^2-1x-30$ GIVEN ROOT is 2

4) $y=x^3+4x^2-76x-160$ Given ROOT is -2

5) $y=x^3-14x^2+8x+320$ Given root is -4

6) $y= x^3+1x^2-30x-72$ Given root is 6