

Advanced Algebra

Unit 5: Polynomials and the Intro to the Derivative Assignment #3

Factor the given problems with the given root. Write your answer in the form $y=(x-a)(x-h)(x-b)$

1) $y=3x^3+28x^2+52x-48$ Given root -6

2) $y=2x^3+7x^2-10x-24$ Given root 2

3) $y=3x^3+15x^2+6x-24$ Given root -2

4) $y=x^3-7x^2-20x+96$ Given root -4

(backside)

5) $y = 2x^3 + 16x^2 + 8x - 96$ Given root 2

6) $y = x^3 + 10x^2 + 8x - 64$ Given root -4