

Lesson 3.5 Worksheet

Factor each polynomial and find all roots. State the multiplicity of each root.

1) $x^3 - 2x^2 - 4x + 8 = 0$

2) $x^4 - 8x^2 - 9 = 0$

3) $x^3 - x^2 - x + 1 = 0$

4) $5x^5 - 28x^4 + 15x^3 = 0$

5) $2x^4 + 13x^3 - 7x^2 = 0$

6) $3x^3 - 4x^2 + 15x - 20 = 0$

7) $x^4 - 8x^2 + 16 = 0$

8) $5x^3 - 15x^2 + 3x - 9 = 0$