

Algebra 2 – Chapter 6 Test

Write each polynomial in standard form. Then classify it by degree and number of terms.

1. $9x^2 - 2x + 3x^2$ Standard Form _____ 2. $4x(x - 5)(x + 6)$ Standard Form _____

Degree _____

Degree _____

Terms _____

Terms _____

3. The table shows data on the number of employees that a small company had from 1975 to 2000. Let 0 represent 1975.

Year	1975 = year 0	1980	1985	1990	1995	2000
# of Employees	60	65	70	60	55	64

- a. Find a cubic model for the set of values.
- b. Use your model to estimate the number of employees in 1998.

Solve each equation by graphing. Where necessary, round to the nearest hundredth.

4. $y = x^3 - 3x^2 = x - 3$

5. $-x^3 + 3x + 4 = 0$

6. $x^2 - 6x + 1 = 0$

zeros: _____

zeros: _____

zeros: _____

Write a polynomial function with rational coefficients in Standard Form with the given zeros.

7. 2, 3, 5

8. -1, -1, 1

For each function, determine the zeros and their multiplicity.

9. $y = (x - 1)^2(2x - 3)^3$

10. $y = 4x^2(x + 2)^3(x + 1)$

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