

Alg 2
ch 6

6.1-6.3 Review

Write each polynomial in standard form. Then classify by degree + # of terms.

1. $3x^2 - 7x^4 + 9 - x^4$ 2. $2x(x-3)(x+2)$ 3. $(t-2)(t+1)(t-1)$

Find the zeros of each polynomial, then graph it.

4. $y = -x^3 - x^2 + 2x$ 5. $y = (x+1)(x+2)(x^2+4x-5)$

6. $y = x^4 + 2x^3 + x^2$ 7. $y = 3x(x+2)^2$

Divide using long division.

8. $x^3 + 7x^2 - 5x - 6 \div x + 2$ 9. $x^2 + 3x - 4 \div x - 1$

Use the Remainder Theorem to find $P(a)$

10. $f(x) = 6x^4 + 19x^3 - 2x^2 - 44x - 24$; $x + 3$

11. $f(x) = 2x^3 - 2x^2 - 12x$; $x - 3$

Is the given factor a factor of the polynomial?

12. $f(x) = x^4 + 3x^3 - 7x^2 - 9x + 12$; $x - 3$

13. $f(x) = x^3 + 3x^2 - 5x - 4$; $x + 1$

Test is Wednesday. I will be available for help Tuesday after school. If you checked out a calculator over the weekend - keep it ... return to me tomorrow.