Name _____ Period _____ Date _____

Lesson 3.3

Practice Set 3.3

Characterizing Polynomial Functions

Directions: Solve each problem as directed.

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

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

3. (graded) $y = 2(x-1)(x+3)$

4. (graded) $y = -(x+2)(x-4)$

Multiple Choice: Select the best response for each question.

5. (graded) Multiplying $x(x+3)$ by $x-2$ is equivalent to _____.

6. (graded) Multiplying $x(x^2-1)$ by $x+1$ is equivalent to _____.

7. (graded) A polynomial function $h(x) = x^3 - x$ is symmetrical by _____.

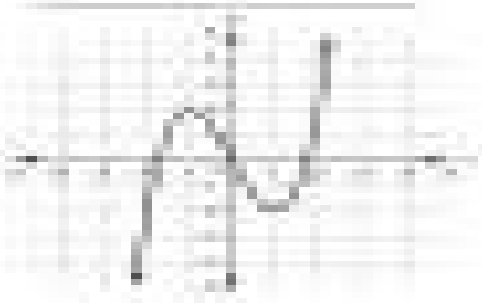
8. (graded) A polynomial function $f(x) = x^4 - x^2$ is _____.

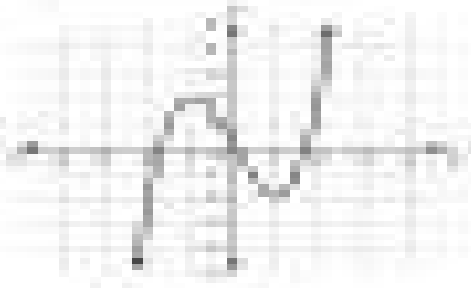
Free Response: Using an online tool, sketch the graphs of the following functions.

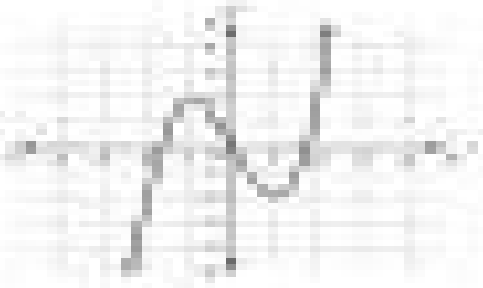
9. $f(x) = x^3 - 4x$

10. Sketch a polynomial function of degree 3 with a positive leading coefficient.

11. Sketch a polynomial function of degree 4 with a negative leading coefficient.







Reasoning:

12. Explain why a polynomial function of degree 3 must have at least one real root, but a polynomial function of degree 4 may have no real roots.

Algebra 2 Lesson 6 8 Practice Transforming Polynomial Functions

Yi-Tong Ma

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