3.8 Transforming Polynomial Functions

Unit 3: Polynomial Functions

For $f(x) = x^3 + 1$, write the new equation for each function and describe the transformation.

1. $g(x) = f(x + 4)$

2. $g(x) = 3f(x)$

_____

3. $g(x) = f(x) + 5$

4. $g(x) = f\left(\frac{1}{2}x\right)$

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Let $f(x) = -x^3 + 4x^2 - 5x + 12$. Write a function $g(x)$ that performs each transformation.

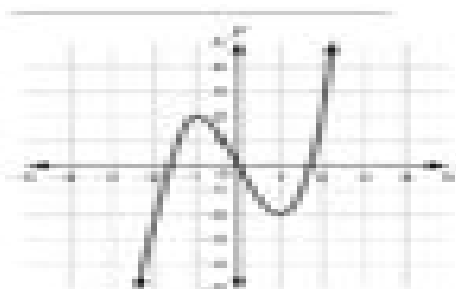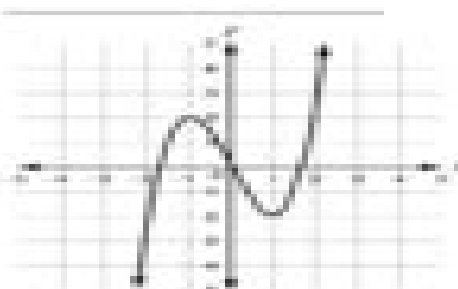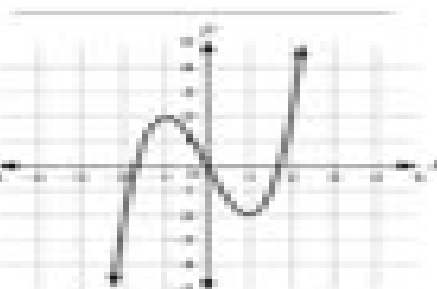5. Reflect $f(x)$ across the y-axis

6. Reflect $f(x)$ across the x-axis

_____

For $f(x) = x^3 - 3x$, write a function $g(x)$ that performs each transformation and sketch its graph.

7. Translate 3 units up

8. Stretch vertically by a factor of 2

9. Translate 2 units left

_____

Let $f(x) = x^3 + 2x^2 - 5x - 6$. Describe $g(x)$ as a transformation of $f(x)$ and write the new equation.

10. $g(x) = \frac{5}{4}f(x)$

11. $g(x) = f(x - 2)$

_____

Write a function that transforms $f(x) = x^3 + 4x^2 - x + 5$ in each of the following ways. Check your equation using your graphing calculator.

12. Move 6 units up and reflect across the y-axis.   _____

13. Move 3 units right and reflect across the x-axis.   _____

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Simon Haykin,K. J. Ray Liu

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