

Name: _____

Per: _____

POINTS: _____

Homework #19 Quiz

Be sure to include your work when appropriate.**Describe the transformation of the cubic parent function, $f(x) = x^3$, that will result in the graph of the cubic function given.**

1. $g(x) = -3(x)^3 + 4$

2. $g(x) = -(-6x + 5)^3 - 3$

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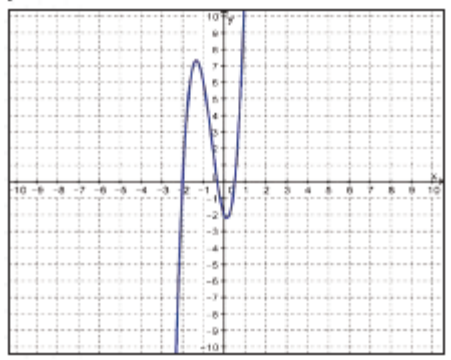
1. $g(x) = -3(x)^3 + 4$

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Identify the domain, range, relative minimum, relative maximum, x-intercept, and y-intercept of the cubic function described by the equation and the graph. Write the domain and range as intervals.

4.

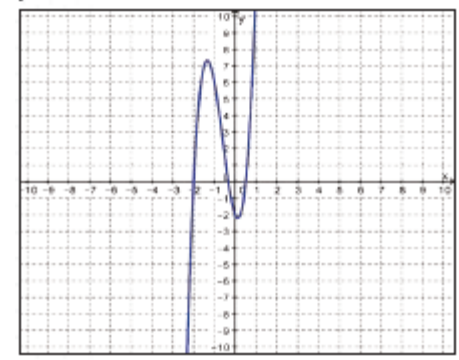
$$f(x) = (x + 2)(2x - 1)(3x + 1)$$



Identify the domain, range, relative minimum, relative maximum, x-intercept, and y-intercept of the cubic function described by the equation and the graph. Write the domain and range as intervals.

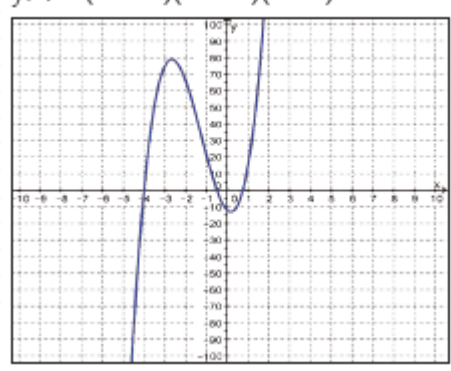
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5.

$$f(x) = (4x - 3)(2x + 1)(x + 4)$$



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