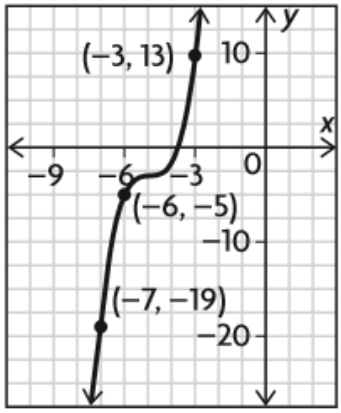
Transformations of Cubic and Quartic Functions (3.4)

"I can describe, graph and algebraically express transformations on the parent functions $y = x^3$ and $y = x^4$. I can apply what is learned in familiar and unfamiliar settings."

Example Determine the equation of the function in the form $f(x) = a(x - d)^3 + c$ and describe the transformations applied to its parent function.



Example Determine the zeros, if they exist, for $y = 2(4x - 1)^4 - 8$

MathSIP!

Page 155 #1, 2*, 3ab, 4bd, 5a, 6ab, 8**, 9af (for #9 see Example 2 on page 153), 10, 14

*2e has an incorrect answer in the back: change "left" to "right".
*2f has an incorrect answer: ...horizontal translation 35 units left...
**8 has an incorrect answer: it should be (-2, -8); (0, 0) then (2, 8)