AP Precalculus - M3Y & M3Z
Inverse Functions & Ranges - Homework 1

1. Find the inverse of the following functions (you do not need to check that they are 1-1):

   (i) $f(x) = \dfrac{1}{2}x - 9$

   (ii) $g(x) = 2x^3 - 1$

   (iii) $h(x) = \dfrac{10}{5 - x} - 2$

   (iv) $p(x) = \sqrt[5]{3x - 7} - 4$

   (v) $q(x) = \dfrac{8x - 6}{1 + 5x}$

   (vi) $r(x) = x^3 - 6x^2 + 12x - 8$

2. Find the range of the functions from Question 1.