Inverse of rational function

Find the inverse of each of the following function.

Find the domain, range, zero, y-intercept, sign, and variation for the inverse.

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

2) $f(x) = \dfrac{1}{2x+8} + 2$

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

4) $f(x) = \dfrac{2}{2x+1} + 5$