Inverse of Square Root Function

Version 1

Name: _____ **Date**: _____ **Score**: _____

Direction: Find the inverse of each function, and state its domain and range. Show all your work in the space provided.

1) $f(x)=\sqrt{x-2}$, $x \geq 2$

2) $f(x)=-\sqrt{x+2}$, $x \geq -2$

3) $f(x)=\sqrt{4-x^2}$, $-2 \leq x \leq 0$

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Direction: Find the inverse of each function, and state its domain and range. Show all your work in the space provided.

1) $f(x)=\sqrt{x-2}$, $x \geq 2$

$f^{-1}(x)=x^2+2$; $Domain: x \geq 0$, $Range: y \geq 2$

2) $f(x)=-\sqrt{x+2}$, $x \geq -2$

$f^{-1}(x)=x^2-2$; $Domain: x \leq 0$, $Range: y \geq -2$

3) $f(x)=\sqrt{4-x^2}$, $-2 \leq x \leq 0$

$f^{-1}(x)=-\sqrt{4-x^2}$; $Domain: 0 \leq x \leq 2$, $Range: -2 \leq y \leq 0$