Direction: Find the inverse of each quadratic function. Show all your work in the space provided.

1) \( f(x) = (x-1)^2 \) for \( x < 1 \)

2) \( f(x) = -(x+1)^2 \) for \( x > -1 \)

3) \( f(x) = x^2 - 2x - 5 \) for \( x > 1 \)
Direction: Find the inverse of each quadratic function. Show all your work in the space provided.

1) \( f(x) = (x-1)^2 \) for \( x < 1 \)

\[ f^{-1}(x) = 1 - \sqrt{x} \] for \( x > 0 \)

2) \( f(x) = -(x+1)^2 \) for \( x > -1 \)

\[ f^{-1}(x) = -\sqrt{-x} - 1 \] for \( x < 0 \)

3) \( f(x) = x^2 - 2x - 5 \) for \( x > 1 \)

\[ f^{-1}(x) = \sqrt{x+6} + 1 \] for \( x > -6 \)