Quiz 3: Functions

Name:

1. (5 points) Let $f(x) = x^2 - 4$. Find $f(a+1)$.

2. (5 points) Recall the shape of the basic graph $y = x^2$. Use transformations to make a sketch of the related function $y = -2(x-1)^2 + 1$.

3. (10 points) Put the function
$$f(x) = 2x^2 + 8x - 7$$
into vertex form by completing the square.