Name_____ No calculators. Present neatly. Score_____.

1. Find the domain of the function.

$$f(u) = \frac{u + 1}{1 + \dfrac{1}{u + 1}}$$

2. Find the domain and sketch the graph of the function.

$$G(x) = \frac{3x + |x|}{x}$$

3. Find an expression for the function whose graph is the given curve.

The bottom half of the parabola $x + (y - 1)^2 = 0$

Your work:

Name_____ No calculators. Present neatly. Score_____.

1. Find the domain of the function.

$$F(p) = \sqrt{2 - \sqrt{p}}$$

2. Find the domain and sketch the graph of the function.

$$g(x) = |x| - x$$

3. Find an expression for the function whose graph is the given curve.

The top half of the circle $x^2 + (y - 2)^2 = 4$

Your work: