

**Test 4**

Name \_\_\_\_\_

1. Solve the equation  $\sqrt{1+x} = -x$ .

2. Solve the inequality  $\frac{\sqrt{1+x}}{x} < -1$ .

3. Solve the equation  $x \tan \frac{x\pi}{2} = \tan \frac{x\pi}{2}$ .

4. Draw the graph of the function  $y = e^{|x-1|}$ .