### 4.4 – Activity

1. Solve the following equations algebraically and check for extraneous solutions. Verify your solutions by graphing.

1. 

2. 

3. 

4. 

5. 

1. The dimensions of a polygon ABCD, shown below, are as follows: AB = 12, BC =, CD = 10, and AD = 6. The perimeter of the polygon is 35.

B

 A

 D C

1. What is the radical equation which must be solved to determine x?
2. Use your equation to solve for x.