Math 114 Assignment7.1 Name:_____

DIRECTIONS To receive full credit, you must provide complete solutions to the following problems in the space provided. Transfer all your answers to the space provided on the test paper.

1. Evaluate $-\sqrt{16}$ Ans_____

2. Evaluate $\sqrt{\frac{4}{25}}$ Ans_____

3. Let $\text{Let} f(x) = \sqrt{x-2},\ \text{find} f(2), f(6), f(0)$ Ans_____

4. $\text{Let} f(x) = \sqrt{(x+1)^2},\ \text{find} f(1), f(-2), f(-3)$ Ans_____

5. Find the domain of $f(x) = \sqrt{x+3}$ write you answer Ans_____
in both interval and algebraic notation.

6. Simplify $\sqrt{(x-2)^2}$ Ans_____

7. Simplify $\sqrt{x^2+14x+49}$ Ans_____

8. Find the cube root $\sqrt[3]{-8}$ Ans_____

9. Find the cube root $\sqrt[3]{\frac{-64}{125}}$ Ans_____

10. Simplify $\sqrt[5]{(-5)^5}$ Ans_____

11. Simplify $\sqrt[4]{(x+1)^4}$ Ans_____

12. Find the domain of $f(x)=\frac{\sqrt{x}}{\sqrt{8-x}}$ Ans_____

13. Simplify $g(x)=\frac{\sqrt{x-2}}{\sqrt{7-x}}$ Ans_____

14. Complete the table

x	$f(x)=\sqrt{x+2}$
–2	
0	
2	
	3

15. Complete the table

x	$f(x)=\sqrt{3-x}+1$
–1	
0	
3	