Intermediate Algebra	Name:
Study Guide 13	Class:
Due Date:	Score:

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (3 points) Simplify $\sqrt{18x^3} - 2x\sqrt{2x}$.

2. (3 points) Simplify $\sqrt[3]{-16xy} + \sqrt[3]{54xy} - \sqrt[3]{2xy}$.

		2
3. (3 points) Rationalize the denominator:	$\frac{5x}{\sqrt{50x}}$	

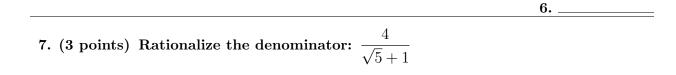
	3
4. (3 points) Rationalize the numerator:	$\frac{\sqrt{3xy}}{6xy}$

4. _____

1. _____

5. (3 points) Rationalize the denominator: $\frac{2}{\sqrt[3]{4x}}$

6. (3 points) Rationalize the denominator: $\frac{xyz}{\sqrt[5]{xy^2z^4}}$



8. (3 points) Rationalize the denominator:
$$\frac{\sqrt{7}}{\sqrt{7}-1}$$

9. (3 points) Rationalize the denominator:
$$\frac{\sqrt{5} - \sqrt{3}}{\sqrt{5} + \sqrt{3}}$$

9. _____

5. _____

7._____

10. (3 points) Solve: $\sqrt[4]{2x-9} - 1 = 2$

11. (5 points) Solve: $x + \sqrt{x+5} = 7$

11. _____

10. _____

12. (5 points) Solve: $\sqrt{2x+7} - \sqrt{x-1} = 3$

13. (5 points) Solve: $x - \sqrt{x-5} = 5$

13. _____

14. (5 points) Solve: $\sqrt{2x+1} + \sqrt{x-3} = 4$

14. _____