

Math 114 Assignment 7.4

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. Add or Subtract $-2\sqrt{3} + 5\sqrt{3}$ Ans _____

2. Add or Subtract $\sqrt[3]{4} - 3\sqrt[3]{4} + 7\sqrt[3]{4}$ Ans _____

3. Add or Subtract $3\sqrt{2} + 2\sqrt{6} - \sqrt{2} + \sqrt{6}$ Ans _____

4. Add or Subtract $-4\sqrt{2} + 5\sqrt[3]{2} + \sqrt{2} + \sqrt[3]{2}$ Ans _____

5. Add or Subtract $-2\sqrt{3x} + 5\sqrt{3x}$ Ans _____

6. Add or Subtract $7\sqrt{12} - 4\sqrt{75}$ Ans _____

7. Add or Subtract $4\sqrt{32x} - 3\sqrt{18x}$ Ans _____

8. Add or Subtract $5\sqrt[3]{24} + \sqrt[3]{81}$

Ans _____

9. Add or Subtract $\sqrt[3]{54x^4} - \sqrt[3]{16x}$

Ans _____

10. Add or Subtract $\sqrt{4x-8} + \sqrt{x-2}$

Ans _____

11. Add or Subtract $4\sqrt[3]{x^4y^2} + 5x\sqrt[3]{xy^2}$

Ans _____

12. Simplify $\sqrt{\frac{11}{4}}$

Ans _____

13. Simplify $\sqrt{\frac{8x^3}{25y^6}}$

Ans _____

14. Simplify $\sqrt[3]{\frac{50x^8}{27y^{12}}}$ Ans _____

15. Simplify $\frac{\sqrt{40}}{\sqrt{5}}$ Ans _____

16. Simplify $\frac{\sqrt{72x^3}}{\sqrt{2x}}$ Ans _____

17. Simplify $\frac{\sqrt[3]{24x^3y^5}}{\sqrt[3]{3y^2}}$ Ans _____

18. Simplify $\frac{\sqrt[3]{x^3 - y^3}}{\sqrt[3]{x - y}}$ Ans _____