

Beginning Algebra

Name: _____

Study Guide 19

Class: _____

Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (2 points) Simplify: $\frac{2 + \frac{5}{6}}{1 - \frac{7}{8}}$

1. _____

2. (3 points) Simplify: $\frac{2 + \frac{5}{x} - \frac{3}{x^2}}{2 - \frac{5}{x} + \frac{2}{x^2}}$

2. _____

3. (3 points) Simplify: $\frac{\frac{x-6}{x^2-9}}{\frac{x^2-36}{x+3}}$

3. _____

4. (3 points) Simplify: $\frac{x - \frac{9}{x}}{x - 6 + \frac{9}{x}}$

4. _____

5. (4 points) Simplify: $\frac{x^{-2} - 4y^{-2}}{x^{-1} + 2y^{-1}}$

5. _____

6. (3 points) Simplify: $\frac{\frac{1}{y} + \frac{2}{y+2}}{\frac{4}{y} - \frac{3}{y+2}}$

6. _____

7. (3 points) Solve: $3 + \frac{1}{x} = \frac{10}{x^2}$

7. _____

8. (3 points) Solve: $\frac{x}{10} = \frac{10}{x}$

8. _____

9. (3 points) Solve: $\frac{2}{m+2} - \frac{1}{m-2} = \frac{2m}{m^2-4}$

9. _____

10. (3 points) Solve: $\frac{3}{x+4} - \frac{21}{x^2+x-12} = \frac{2}{x-3}$

10. _____

11. (4 points) Solve: $\frac{2x-3}{4} = \frac{4}{2x-3}$

11. _____

12. (4 points) Solve: $\frac{x-2}{x} + \frac{x+4}{x-3} = 4$

12. _____

13. (4 points) Solve: $\frac{x-4}{x^2-6x} = \frac{5}{x^2-36}$

13. _____

14. (4 points) Solve: $\frac{2}{x^2-7x+12} = \frac{1}{x^2-9} - \frac{4}{x^2-x-12}$

14. _____

15. (4 points) Solve: $\frac{6}{x^2-2x-8} = 2 - \frac{x+3}{x+2}$

15. _____