

Name : _____

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Class Number: _____

Math 105 Sample Skill Quiz 4
Lessons 9, 10, and 11

5 1. Multiply and simplify completely: $\frac{3z + 18}{z - 2} \cdot \frac{z - 2}{z^2 + 2z - 24}$.

5 2. Add and simplify completely: $\frac{d^2}{d - 2} + \frac{4}{2 - d}$

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- 5 3. Solve. Make sure to check for extraneous solutions. If no solution exists, state this:

$$\frac{x}{x+1} + \frac{5}{x} = \frac{1}{x^2+x}$$

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- 5 4. In your own words, explain the inverse operation for rational equations. Then, explain how to use this inverse to solve rational equations. (Hint: see problem 3 above.)