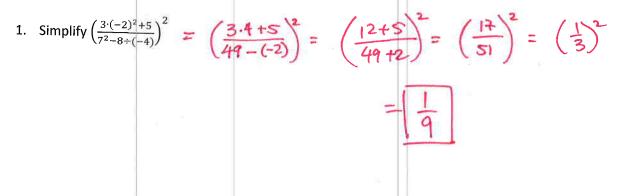
Math 1030, Quiz #1, Summer 2014

3.

Y

Name

Instructions: Show all work. Use exact answers unless specifically asked to round. Reduce as much as possible. Be sure to answer all parts of each question.



2. Solve the equations for the variable. State whether the equation is conditional, an identity or a contradiction, and clearly state the solution (if any) or say that there is no solution. a. 3x - (2x - 7) + 5 = -5x + 3(2x + 4) - 1

$$b_{1}\left(\frac{4}{3}x+\frac{x-2}{2}=\frac{x-1}{6}\right)b_{2}$$

$$b_{2}\left(\frac{4}{3}x+\frac{x-2}{2}=\frac{x-1}{6}\right)b_{3}\left(\frac{x+2}{2}=\frac{x-1}{6}\right)b_{4}$$

$$b_{1}\left(\frac{4}{3}x+\frac{x-2}{2}=\frac{x-1}{6}\right)b_{4}$$

$$b_{2}\left(\frac{4}{3}x+\frac{x-2}{2}=\frac{x-1}{6}\right)b_{5}$$

$$2\frac{b_{1}4}{3}x+\frac{3}{2}\frac{b_{1}2}{b_{2}}\left(x-2\right)=\frac{b_{6}}{6}(x-1)$$

$$8x + 3(x-2) = x-1$$

$$b_{1}\left(\frac{1}{3}x+\frac{2}{2}=\frac{1}{2}\right)b_{5}\left(\frac{1}{3}x+\frac{2}{2}\right)=\frac{b_{6}}{6}(x-1)$$

$$8x + 3(x-2) = x-1$$

$$b_{1}\left(\frac{1}{3}x+\frac{2}{2}\right)=\frac{b_{6}}{6}(x-1)$$

$$8x + 3(x-2) = x-1$$

$$b_{1}\left(\frac{1}{3}x+\frac{2}{2}\right)=\frac{b_{1}}{2}(x-1)$$

$$x + 3(x-2) = x-1$$

$$x + 4$$

$$b_{1}\left(\frac{1}{3}x+\frac{2}{3}\right)=\frac{b_{1}}{2}(x-1)$$

$$x + 3(x-2) = x-1$$

$$x + 4$$

$$x + 3(x-2) = x-1$$

$$x + 3(x-2) = x-1$$

$$x$$