Mini-Quiz 9
Math 111

Name:

[10] Solve for y. Combine like terms where given but you need not perform fraction addition.
Let x and y be real numbers. Assume $x, y, z \neq 0$

$\frac{1}{x} = \frac{1}{y}$ $\quad x = \frac{-3+2y}{y}$ $\quad x = \frac{-y}{y+x}$ $\quad x = \frac{2xy}{y-5}$

Solve for $g(x)$. Combine like terms where given but you need not perform fraction addition.
Let x, z, and $g(x)$ be real numbers. Assume $x, y, z \neq 0$

$x = \frac{3-g(x)}{g(x)}$ $\quad x = \frac{3g(x)}{g(x)-2}$ $\quad -x = \frac{-g(x)}{4-g(x)}$ $\quad \frac{1}{g(x)} = \frac{2}{x} + \frac{x}{z}$

$2g(x) = \frac{8g(x)+42}{g(x)}$

$g(x) = \frac{4g(x)-x}{g(x)}$