

Mini-Quiz 10

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 no combinations of numbers on this sheet = 0

$$\frac{1}{x} = \frac{1}{y}$$

$$x = \frac{3-y}{2y}$$

$$x = \frac{3y}{y+4x}$$

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

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 $x, y, z \neq 0$

$$x = \frac{-3+g(x)}{g(x)}$$

$$x = \frac{g(x)}{2g(x)-1}$$

$$-x = \frac{2-3g(x)}{-g(x)+5}$$

$$\frac{1}{g(x)} = \frac{1}{xz} + \frac{1}{z}$$

$$-2g(x) = \frac{-2g(x)-12}{g(x)}$$

$$2g(x) = \frac{3g(x)-x}{g(x)}$$