

Mini-Quiz 13

Math 111

Name:

[10] Solve for y . Let x , y , and z be real numbers. Assume no combinations of numbers on this sheet = 0

$$\frac{z}{x} = \frac{1}{yz}$$

$$x = \frac{6x-y}{2y}$$

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

$$1 = \frac{1}{y} + \frac{1}{y+2}$$

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 no combinations of numbers on this sheet = 0

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

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

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

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

$$3(g(x))^2 = 12g(x) - x$$

$$g(x) = \frac{12g(x)-12}{3g(x)}$$