

Week 6 Math 150 Problem of the week

Solve for x , where $x \neq 0$

$$\frac{(x)(x)(x)}{x + x + x} = x$$

$$\frac{x^3}{3x} = x$$

Reduce

$$\cancel{3} \left(\frac{x^2}{\cancel{3}} \right) = (x)^3$$

$$x^2 = 3x$$

$$x^2 - 3x = 0$$

$$x(x - 3) = 0$$

$$\cancel{x = 0} \quad \left. \vphantom{\begin{matrix} x = 0 \\ x = 3 \end{matrix}} \right\} x = 3$$