

## ECUACIONES DE PRIMER GRADO

Problema 62:

Resolver la ecuación

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

Solución Problema 62:

$$2 = 1 + \frac{1}{x + \frac{1}{1 + \frac{1}{2}}} = 1 + \frac{1}{x + \frac{1}{\frac{3}{2}}} = 1 + \frac{1}{x + \frac{2}{3}} = 1 + \frac{1}{\frac{3x + 2}{3}}$$

$$2 = 1 + \frac{1}{\frac{3x + 2}{3}} = 1 + \frac{3}{3x + 2} = \frac{3x + 2 + 3}{3x + 2} = \frac{3x + 5}{3x + 2}$$

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

$$2(3x + 2) = 3x + 5$$

$$6x + 4 = 3x + 5$$

$$3x = 1$$

$$x = \frac{1}{3}$$