

ECUACIONES DE PRIMER GRADO

Problema 60:

Resolver

$$\frac{\frac{1}{x-1}}{2} = \left(\frac{1}{16}\right)^{-\frac{1}{2}}$$
$$\frac{1}{x^2 - 1}$$

Solución Problema 60:

$$\frac{\frac{1}{x-1}}{2} = \left(\frac{1}{16}\right)^{-\frac{1}{2}}$$
$$\frac{1}{x^2 - 1}$$

$$\frac{\frac{1}{x-1}}{2} = \frac{1}{\left(\frac{1}{16}\right)^{\frac{1}{2}}}$$
$$\frac{1}{(x-1)(x+1)}$$

$$\frac{\cancel{(x-1)}(x+1)}{2\cancel{(x-1)}} = \frac{1}{\sqrt{\frac{1}{16}}}$$

$$\frac{(x+1)}{2} = \frac{1}{\frac{1}{4}}$$

$$\frac{(x+1)}{2} = 4$$

$$x + 1 = 8$$

$$x = 8 - 1 = 7$$

$$x = 7$$