

$$\frac{x+2}{x+3} + \frac{3}{\underbrace{x^2+6x+9}_{(x+3)^2}} = 1$$

$$\frac{(x+2) \cdot (x+3)}{(x+3)^2} + \frac{3}{(x+3)^2} = \frac{(x+3)^2}{(x+3)^2}$$

$$\cancel{x^2+3x+2x+6} + 3 = \cancel{x^2+6x+9}$$

$$5x+9 = 6x+9$$

$$-x = 0$$

$$\boxed{x = 0}$$

COMPROBACIÓN:  $x=0$

$$\frac{x+2}{x+3} + \frac{3}{x^2+6x+9} = 1$$
$$\frac{2}{3} + \frac{3}{9} = \frac{6+3}{9} = \frac{9}{9} = 1$$

$x=0$  ES SOLUCIÓN