

## ECUACIONES RACIONALES

ECUACIÓN	SOLUCIÓN	ECUACIÓN	SOLUCIÓN
1) $\frac{x}{2} + \frac{3}{x-1} = 3$	$x = 4, x = 3$	2) $x+1 = \frac{8x}{x-1} - 4$	$x = 5, x = -1$
3) $\frac{2x}{x-2} = 1 + \frac{x+2}{2}$	$x = 4, x = -2$	4) $x+2 = \frac{x}{x-1} + 2$	$x = 2, x = 0$
5) $x^2 + \frac{64}{x^2} - 16 = 0$	$x = \pm 2\sqrt{2}$	6) $x^2 + \frac{324}{x^2} = 45$	$x = \pm 6, x = \pm 3$
7) $34 - x^2 = \frac{225}{x^2}$	$x = \pm 5, x = \pm 3$	8) $x^2 = \frac{12}{x^2 + 1}$	$x = \pm\sqrt{3}$
9) $\frac{2}{x^2 - 9} = \frac{x^2 - 16}{72}$	$x = \pm 5, x = 0$	10) $\frac{x^2 - 32}{4} = \frac{-28}{x^2 - 9}$	$x = \pm 5, x = \pm 4$
11) $\frac{2x+1}{x-1} = \frac{5(x-1)}{x+1}$	$x = 4, x = \frac{1}{3}$	12) $\frac{2x-1}{x+1} = \frac{x+1}{x-1}$	$x = 0, x = 5$
13) $\frac{x^2}{x+2} = \frac{2-x}{x^2+2}$	$x = \pm 1$	14) $\frac{3x^2+2}{x^2+2} = 4x^2+3$	No tiene
15) $\frac{x+4}{x} - 1 = \frac{x}{x-1}$	$x = 2$	16) $\frac{24}{x} + 1 = \frac{14}{x-2}$	$x = 4, x = -12$
17) $\frac{4}{x+1} + \frac{x-1}{x} = 2$	$x = 1$	18) $\frac{2x}{x+2} = \frac{3x-2}{2x}$	$x = 2$
19) $\frac{8}{x-2} + x = \frac{x+6}{x-2}$	$x = 1$	20) $\frac{x-2}{x} - \frac{x}{x-1} = -2$	$x = 2, x = \frac{1}{2}$
21) $\frac{x-5}{x-1} + \frac{3x-2}{x} = \frac{13}{5}$	$x = 5, x = \frac{2}{7}$	22) $\frac{x+4}{x-1} - \frac{x+1}{x} = \frac{13}{6}$	$x = 3, x = -\frac{2}{13}$
23) $5x - \frac{10}{x+5} = \frac{4x^2+22x}{x+5}$	$x = 2$	24) $\frac{x+2}{x+1} + \frac{x+1}{x+2} = \frac{13}{6}$	$x = 1; x = -4$
25) $\frac{2x}{x+2} + \frac{x+2}{2x} = 2$	$x = 2$	26) $\frac{x}{x+1} + \frac{x}{x+4} = 1$	$x = \pm 2$
27) $\frac{1}{x+1} + \frac{2}{x+2} = \frac{9}{2}$	$x = -\frac{2}{3}; x = -\frac{5}{3}$	28) $\frac{3}{x+3} + \frac{1}{6} = \frac{2}{x-2}$	$x = 6; x = -13$
29) $\frac{2x-1}{x+1} - \frac{x-7}{x-1} = \frac{x+9}{x+2}$	$x = 5; x = -\frac{5}{4}$	30) $\frac{x}{x+1} + \frac{x+1}{x} = \frac{13}{6}$	$x = -3; x = 2$
31) $\frac{x}{x+3} + \frac{3}{x-1} = \frac{12}{x^2+2x-3}$	No tiene	32) $\frac{1}{x+1} + \frac{2x}{1-x^2} = 1$	$x = 0$
33) $\frac{x+4}{x-4} - \frac{x-4}{x+4} = \frac{24}{x^2-16}$	$x = \frac{3}{2}$	34) $\frac{x}{x-3} - \frac{5}{x+1} = \frac{20}{x^2-2x-3}$	$x = 5$