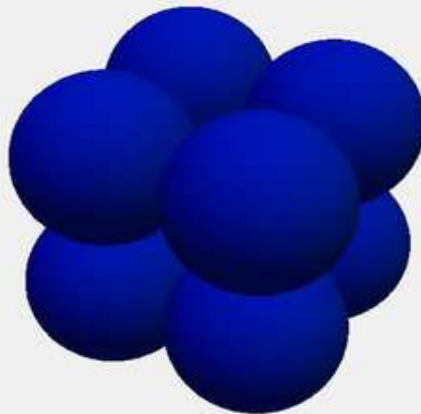


# MathCon

*The Mathematics Firm*

## Ejercicios de Factorizar Enteros

Lista de Ejercicios



[www.math.com.mx](http://www.math.com.mx)

José de Jesús Angel Angel  
jjaa@math.com.mx

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## Factorización de trinomios

Factorizar los siguientes trinomios como producto de dos binomios de la forma  $(x \pm \frac{a}{b})(x \pm \frac{c}{d})$ .

1.  $x^2 + \frac{x}{2} - \frac{1}{2}$  Sol:  $(x - \frac{1}{2})(x + 1)$
2.  $x^2 + \frac{x}{2} - \frac{3}{2}$  Sol:  $(x + \frac{3}{2})(x - 1)$
3.  $x^2 + \frac{6x}{5} + \frac{1}{5}$  Sol:  $(x + \frac{1}{5})(x + 1)$
4.  $x^2 + \frac{x}{2} - \frac{3}{2}$  Sol:  $(x + \frac{3}{2})(x - 1)$
5.  $x^2 + \frac{4x}{5} - \frac{1}{5}$  Sol:  $(x - \frac{1}{5})(x + 1)$
6.  $x^2 + \frac{9x}{4} + \frac{5}{4}$  Sol:  $(x + \frac{5}{4})(x + 1)$
7.  $x^2 - \frac{3x}{2} + \frac{1}{2}$  Sol:  $(x - \frac{1}{2})(x - 1)$
8.  $x^2 - \frac{4x}{3} + \frac{1}{3}$  Sol:  $(x - \frac{1}{3})(x - 1)$
9.  $x^2 + \frac{4x}{3} + \frac{1}{3}$  Sol:  $(x + \frac{1}{3})(x + 1)$
10.  $x^2 - \frac{8x}{5} + \frac{3}{5}$  Sol:  $(x - \frac{3}{5})(x - 1)$
11.  $x^2 - \frac{7x}{5} + \frac{2}{5}$  Sol:  $(x - \frac{2}{5})(x - 1)$
12.  $x^2 + \frac{9x}{5} + \frac{4}{5}$  Sol:  $(x + \frac{4}{5})(x + 1)$
13.  $x^2 - \frac{3x}{4} - \frac{5}{2}$  Sol:  $(x + \frac{5}{4})(x - 2)$
14.  $x^2 + \frac{5x}{2} + \frac{3}{2}$  Sol:  $(x + \frac{3}{2})(x + 1)$
15.  $x^2 - \frac{7x}{2} + \frac{5}{2}$  Sol:  $(x - \frac{5}{2})(x - 1)$
16.  $x^2 - \frac{8x}{5} + \frac{3}{5}$  Sol:  $(x - \frac{3}{5})(x - 1)$
17.  $x^2 - \frac{12x}{5} - \frac{9}{5}$  Sol:  $(x + \frac{3}{5})(x - 3)$
18.  $x^2 - \frac{11x}{2} + \frac{15}{2}$  Sol:  $(x - \frac{5}{2})(x - 3)$
19.  $x^2 + \frac{2x}{3} - \frac{8}{3}$  Sol:  $(x - \frac{4}{3})(x + 2)$

20.  $x^2 + \frac{5x}{2} - 6$  Sol:  $(x - \frac{3}{2})(x + 4)$
21.  $x^2 + \frac{16x}{3} + \frac{16}{3}$  Sol:  $(x + \frac{4}{3})(x + 4)$
22.  $x^2 - \frac{9x}{20} - 1$  Sol:  $(x + \frac{4}{5})(x - \frac{5}{4})$
23.  $x^2 + 2x + \frac{5}{9}$  Sol:  $(x + \frac{5}{3})(x + \frac{1}{3})$
24.  $x^2 - \frac{34x}{15} + 1$  Sol:  $(x - \frac{3}{5})(x - \frac{5}{3})$
25.  $x^2 + 2x + \frac{3}{4}$  Sol:  $(x + \frac{3}{2})(x + \frac{1}{2})$
26.  $x^2 + x + \frac{3}{16}$  Sol:  $(x + \frac{3}{4})(x + \frac{1}{4})$
27.  $x^2 + \frac{25x}{12} + 1$  Sol:  $(x + \frac{4}{3})(x + \frac{3}{4})$
28.  $x^2 + x - \frac{4}{9}$  Sol:  $(x + \frac{4}{3})(x - \frac{1}{3})$
29.  $x^2 - \frac{x}{10} - \frac{3}{10}$  Sol:  $(x + \frac{1}{2})(x - \frac{3}{5})$
30.  $x^2 - \frac{x}{5} - \frac{6}{25}$  Sol:  $(x + \frac{2}{5})(x - \frac{3}{5})$
31.  $x^2 - \frac{3x}{4} - \frac{1}{8}$  Sol:  $(x - \frac{1}{4})(x - \frac{1}{2})$
32.  $x^2 - \frac{x}{4} - \frac{1}{8}$  Sol:  $(x + \frac{1}{4})(x - \frac{1}{2})$
33.  $x^2 - \frac{9x}{10} - \frac{9}{10}$  Sol:  $(x + \frac{3}{5})(x - \frac{3}{2})$
34.  $x^2 + \frac{4x}{3} - \frac{5}{9}$  Sol:  $(x + \frac{5}{3})(x - \frac{1}{3})$
35.  $x^2 + \frac{23x}{12} + \frac{5}{6}$  Sol:  $(x + \frac{5}{4})(x + \frac{2}{3})$
36.  $x^2 - \frac{5x}{4} + \frac{3}{8}$  Sol:  $(x - \frac{1}{2})(x - \frac{3}{4})$
37.  $x^2 - \frac{7x}{4} + \frac{5}{8}$  Sol:  $(x - \frac{1}{2})(x - \frac{5}{4})$
38.  $x^2 + \frac{5x}{6} - \frac{25}{6}$  Sol:  $(x + \frac{5}{2})(x - \frac{5}{3})$
39.  $x^2 - \frac{19x}{6} + \frac{5}{2}$  Sol:  $(x - \frac{3}{2})(x - \frac{5}{3})$
40.  $x^2 - 2x - \frac{15}{16}$  Sol:  $(x - \frac{3}{4})(x - \frac{5}{4})$
41.  $x^2 + \frac{5x}{6} - \frac{25}{6}$  Sol:  $(x + \frac{5}{2})(x - \frac{5}{3})$

42.  $x^2 - \frac{x}{15} - \frac{2}{15}$

Sol:  $(x + \frac{1}{3})(x - \frac{2}{5})$

43.  $x^2 + \frac{5x}{6} + \frac{1}{6}$

Sol:  $(x + \frac{1}{2})(x + \frac{1}{3})$

44.  $x^2 - \frac{x}{15} - \frac{2}{15}$

Sol:  $(x - \frac{2}{5})(x + \frac{1}{3})$

45.  $x^2 + \frac{19x}{6} + \frac{5}{2}$

Sol:  $(x + \frac{5}{3})(x + \frac{3}{2})$

46.  $x^2 - \frac{19x}{12} + \frac{1}{3}$

Sol:  $(x - \frac{1}{4})(x - \frac{4}{3})$

47.  $x^2 + \frac{2x}{5} - \frac{8}{25}$

Sol:  $(x + \frac{4}{5})(x - \frac{2}{5})$

48.  $x^2 + \frac{19x}{20} + \frac{3}{20}$

Sol:  $(x + \frac{3}{4})(x + \frac{1}{5})$

49.  $x^2 + \frac{x}{15} - \frac{2}{15}$

Sol:  $(x + \frac{2}{5})(x - \frac{1}{3})$

50.  $x^2 + \frac{7x}{10} - \frac{6}{5}$

Sol:  $(x + \frac{3}{2})(x - \frac{4}{5})$