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## Matemáticas 3º ESO

### Boletín 6 | Ecuaciones de 2º grado

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- 1)  $x^2 + 6x + 9 = 0$
- 2)  $x^2 + 3x + 6 = 0$
- 3)  $3x^2 - 5x + 4 = 0$
- 4)  $x - \frac{4x+3}{8} + \frac{x^2+2}{16} = 1$
- 5)  $4x^2 - 24 = 3x^2 + 601$
- 6)  $\frac{x^2+1}{10} = 1 + \frac{x^2-1}{12}$
- 7)  $24x^2 - 7x = 3x \cdot (5x - \frac{x}{2})$
- 8)  $(x+6) \cdot (x-6) - 8 = 1 - 4x$
- 9)  $x \cdot (x+3) = 2x$
- 10)  $x \cdot (x-2) = 5 \cdot (x+6)$
- 11)  $(x+2)^2 = 24 - 4x$
- 12)  $\frac{5x^2-8x}{3} = \frac{4x^2}{5} - \frac{8x}{7}$
- 13)  $x \cdot \left(x + \frac{2}{3}x\right) + 5x \cdot \left(x - \frac{x}{4}\right) - 120x = 0$
- 14)  $\frac{x-5}{10} = \frac{1}{x-2}$
- 15)  $\frac{8}{x} - 1 = \frac{12}{x^2}$

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### Soluciones

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|---|----------------------------------|---|
| <b>1.</b> $x_1 = -3$ $x_2 = -3$             | <b>2.</b> non ten solución real  | <b>3.</b> no ten solución real              |
| <b>4.</b> $x_1 = 2$ $x_2 = -10$             | <b>5.</b> $x_1 = 25$ $x_2 = -25$ | <b>6.</b> $x_1 = 7$ $x_2 = -7$              |
| <b>7.</b> $x_1 = 0$ $x_2 = \frac{2}{3}$     | <b>8.</b> $x_1 = 5$ $x_2 = -9$   | <b>9.</b> $x_1 = 0$ $x_2 = -1$              |
| <b>10.</b> $x_1 = 10$ $x_2 = -3$            | <b>11.</b> $x_1 = 2$ $x_2 = -10$ | <b>12.</b> $x_1 = 0$ $x_2 = \frac{288}{13}$ |
| <b>13.</b> $x_1 = 0$ $x_2 = \frac{160}{91}$ | <b>14.</b> $x_1 = 0$ $x_2 = 7$   | <b>15.</b> $x_1 = 6$ $x_2 = 2$              |