

Los de volgende kwadratische vergelijkingen en andere soort vergelijkingen op.

<p>1) $3x^2 - 5x = 0$ $x(3x-5) = 0$ $x=0 \vee 3x-5=0$ $3x=5$ $x = \frac{5}{3} = 1\frac{2}{3}$</p> <p><u>$x=0 \vee x=1\frac{2}{3}$</u></p>	<p>2) $2x^2 = 10x$ $2x^2 - 10x = 0$ $2x(x-5) = 0$ $x=0 \vee x-5=0$ $x=5$</p> <p><u>$x=0 \vee x=5$</u></p>
<p>3) $5x - 10 = -15 + 12x^2 - x + 5$ $5x - 10 + 15 - 12x^2 + x - 5 = 0$ $-12x^2 + 5x + x - 10 + 15 - 5 = 0$ $-12x^2 + 6x = 0$ $12x^2 - 6x = 0$ $6x(2x-1) = 0$ $x=0 \vee 2x-1=0$ $2x=1$ $x = \frac{1}{2}$</p> <p><u>$x=0 \vee x=\frac{1}{2}$</u></p>	<p>4) $5x(2x-5)(3x-7) = 0$ $x=0 \vee 2x-5=0 \vee 3x-7=0$ $2x=5$ $3x=7$ $x = \frac{5}{2} = 2\frac{1}{2}$ $x = \frac{7}{3} = 2\frac{1}{3}$</p> <p><u>$x=0 \vee x=2\frac{1}{2} \vee x=2\frac{1}{3}$</u></p>
<p>5) $(x^2-2)(3x-2) = 0$ $x^2-2=0 \vee 3x-2=0$ $x^2=2$ $3x=2$ $x = \pm\sqrt{2}$ $x = \frac{2}{3}$</p> <p><u>$x = \sqrt{2} \vee x = -\sqrt{2} \vee x = \frac{2}{3}$</u></p>	<p>6) $3x^2 - 5x = 10x - x^2$ $3x^2 - 5x - 10x + x^2 = 0$ $4x^2 - 15x = 0$ $x(4x-15) = 0$ $x=0 \vee 4x-15=0$ $4x=15$ $x = \frac{15}{4} = 3\frac{3}{4}$</p> <p><u>$x=0 \vee x=3\frac{3}{4}$</u></p>
<p>7) $3x^2 - 5 = 0$ $3x^2 = 5$ $x^2 = \frac{5}{3}$ $x = \pm\sqrt{\frac{5}{3}} = \pm\frac{1}{3}\sqrt{15}$</p> <p><u>$x = \frac{1}{3}\sqrt{15} \vee x = -\frac{1}{3}\sqrt{15}$</u></p>	<p>8) $3 = 8x^2 - 7$ $3 - 8x^2 + 7 = 0$ $-8x^2 + 10 = 0$ $-8x^2 = -10$ $x^2 = \frac{-10}{-8} = \frac{5}{4}$ $x = \pm\sqrt{\frac{5}{4}} = \pm\frac{1}{2}\sqrt{5}$</p> <p><u>$x = \frac{1}{2}\sqrt{5} \vee x = -\frac{1}{2}\sqrt{5}$</u></p>