**LINEAIRE VERGELIJKINGEN.**

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#### Basis Lineaire Vergelijkingen

$$x+2=0==>x= -2 $$

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| $$x-9=0$$ | $$2x=-4$$ |
| $$x-8=-2$$ | $$-3x=-12$$ |
| $$-x-3= 72 $$ | $$-22x=98 $$ |
| $$x-2= -5 $$ | $$2x= -16 $$ |

#### Algemene lineaire vergelijkingen

$$ax+b=cx-d$$

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| $$2x+9=4x+3$$ | $$17x-2=5x-3$$ |
| $$6x-2+14x=4-31x+2+17x$$ | $$-5x+1+14x=4x-3+2x+9$$ |
| $$5x-2+4x=4-3x+21+7x$$ | $$-4x+2=3-x$$ |

$$a(x+b)=c(x-d)$$

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| $$2\left(x-1\right)= -3$$ | $$2\left(3x-1\right)= -3(2x+5)$$ |
| $$-\left(3x-2\right)+7= 3\left(x+5\right)-3$$ | $$2\left(x-1\right)-3=-4\left(x-2\right)+4x-3$$ |
| $$-2\left(x-2\right)-3=4\left(3x-2\right)+x-2$$ | $$2\left(x-1\right)+3\left(2x-5\right)+2=4\left(x+2\right)+3x-2$$ |

$$\frac{a}{b}(x+c)=\frac{c}{d}(x-e)$$

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| $$\frac{3x}{2}- \frac{3}{4}= \frac{3}{2}-\frac{3}{4}x$$ | $$\frac{3x}{2}- \frac{3}{5}= \frac{3}{4}-\frac{3}{5}x$$ |
| $$x+ \frac{1}{3}\left(x-3\right)= -3x+2$$ | $$\frac{3x}{5}+ \frac{2}{5}\left(x-\frac{3}{2}\right)= -3x+\frac{3}{2}$$ |
| $$\frac{2}{3}\left(x-\frac{1}{2}\right)= \frac{1}{3}+\frac{1}{4}\left(\frac{1}{3}x-1\right)$$ |  |

#### Speciale lineaire vergelijkingen

$$x=x+1 of 2x=2x$$

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| $$2x-5=2(x-2)$$ | $$-4x-6=-4(x+2)$$ |
| $$3x-6=2\left(x-2\right)+x -2$$ | $$3x-4=2\left(x-2\right)$$ |
| $$x-6=2\left(x-2\right)-x -2$$ | $$3\left(x-1\right)=x-2+2(x-1)$$ |
| $$x-5=2\left(x-2\right)+x -1$$ | $$x-5=\left(x-2\right)-1$$ |