

Løsning af en ligning



Solve[2x+17==25,x]



Solve[2*x + 17 == 25, x]

Input interpretation:

Solve[2*x + 17 == 25, x]

solve

2*x + 17 = 25

for

x

Results:

Hide steps

Reduce[17 + 2*x == 25, x]

$$x = 4$$

Possible intermediate steps:

Solve for x:

$$2x + 17 = 25$$

Subtract 17 from both sides:

$$2x + (17 - 17) = 25 - 17$$

$$17 - 17 = 0:$$

$$2x = 25 - 17$$

$$25 - 17 = 8:$$

$$2x = 8$$

Divide both sides of $2x = 8$ by 2:

$$\frac{2x}{2} = \frac{8}{2}$$

$$\frac{2}{2} = 1:$$

$$x = \frac{8}{2}$$

The gcd of 8 and 2 is 2, so $\frac{8}{2} = \frac{2 \times 4}{2 \times 1} = \frac{2}{2} \times 4 = 4$:

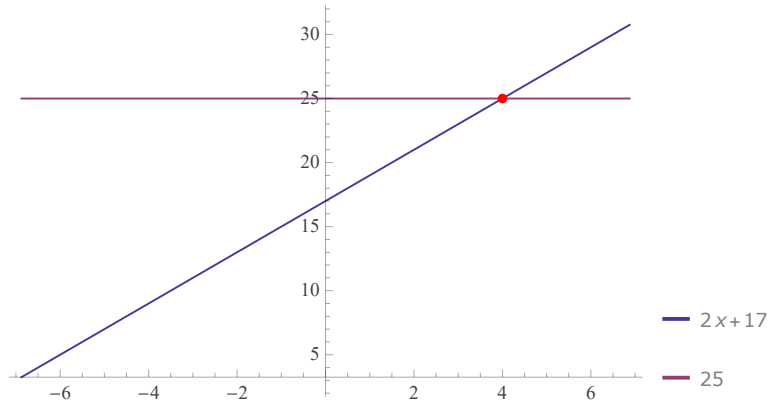
Answer:

$$x = 4$$

Plot:

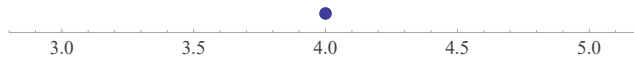
Plot[{17 + 2*x, 25}, {x, -6, 875, 6, 875}]

Løsning af en ligning



Number line:

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NumberLinePlot[x == 4, x]
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Out[28]= $\{\{x \rightarrow 4\}\}$