STACK -Toisen asteen yhtälö

1.
$$\chi^2 = 6\chi - 2 \iff -\chi^2 + 6\chi - 2 = 0 \iff \chi = \frac{-6 \pm \sqrt{3^2 - 4 \cdot -1 \cdot -2}}{2 - 1} \times = \frac{-6 \pm \sqrt{3^2 - 4}}{-2} \times = \frac{-6 \pm \sqrt{29}}{-2} \times \approx 0.35 \quad \forall \quad \chi = 5.45$$

2.
$$9x + 5x^{2} = 3x$$

 $5x^{2} + 9x - 3x = 0$
 $5x^{2} + 6x = 0$
 $x = -\frac{6}{5}$
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3.
$$4(x^2 - 2x + 2) = -4$$
 $\Longrightarrow x = \frac{-(-8) \pm \sqrt{(-8)^2 - 4 \cdot 4 \cdot 12}}{2 \cdot 4}$
 $4x^2 - 8x + 8 = -4$ $= \frac{8 \pm \sqrt{(4 - 192)}}{2}$
 $4x^2 - 8x + 8 + 4 = 0$ $= \frac{8 \pm \sqrt{-128}}{8}$

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4.
$$2x(7x+1)-10 = 2x$$

 $14x^2 + 2x-10-2x = 0$
 $14x^2 - 10 = 0$
 $14x^2 = 10$
 $x = \frac{10}{14}$
 $x = \frac{10}{14}$
 $x \approx \pm 0.85$

5.
$$\frac{2x-5}{3} = \frac{6}{x}$$

$$= \frac{-(-5) \pm \sqrt{-4 \cdot 2 \cdot -18}}{2 \cdot 2}$$

$$= \frac{5 \pm \sqrt{25 + 144}}{4}$$

$$2x^2 - 5x - 18 = 0$$

$$= \frac{5 \pm \sqrt{765}}{4}$$

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$$= \frac{5 \pm \sqrt{765}}{4}$$

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$$x^{2}+8x-9\infty = 0$$
pituus: 26.265
$$x = \frac{-8 \pm \sqrt{8^{2}-4.-900}}{2}$$

$$x = \frac{-8 \pm \sqrt{64+3600}}{2}$$

$$x = \frac{-8 \pm \sqrt{3664}}{2}$$

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$$x \approx 26,265 \ \lor \ x \approx -34,265$$