

CAS Activities with GeoGebra

1st Annual Southern CT GeoGebra Conference
Southern Connecticut State University

Dr. Leon Brin

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Outline

- ▶ CAS as Calculator
- ▶ CAS as Graphing Calculator
- ▶ CAS as Statistical Calculator
- ▶ CAS Solving Algebra Problems
- ▶ CAS on a Calculus Exploration

Thank You

Thank you for your attention and attendance at the first annual conference of the Southern Connecticut GeoGebra Institute!

Any Questions?

Do you have any questions for me?

Some Algebra Problems

1. Factor 60.
2. Expand $(x + 8)(2x - 3)$.
3. Solve $3x - 5 = 12 - 2x$.
4. Solve $a^2 + 7^2 = 12^2$.
5. Factor $4x^2 - 12x + 9$.
6. Factor $x^2 - 3x - 2$.
7. Complete the square: $x^2 - 3x - 2$.
8. Long divide $4x^3 - 3x^2 + 12$ by $x^2 + 2x - 1$.
9. Solve the nonlinear system

$$\begin{cases} x = y^2 - 2y - 1 \\ y = 2 + x \end{cases}$$