Goal and idea - Module 15

GOAL:

To this point, we can really only solve linear differentiation equations with constant coefficients (though they could now be homogeneous or nonhomogeneous). Here we examine another type of linear ODE that we can solve. We will

- introduce Cauchy-Euler equations; and
- learn to solve such differential equations.

IDEA:

In the constant coefficient case we input the function e^{mx} and solved for m. Here we consider x^m.