



A Cauchy-Euler equation can be converted to an equation with constant coefficients using the substitution $x = e^t$ and the Chain Rule.

Example: Use the substitution $x = e^t$ to transform the given Cauchy-Euler equation to a differential equation with constant coefficients. Solve the original equation by solving the new equation using techniques previously learned.

$$x^2 y'' - 9xy' + 25y = 0$$

