

COS 488 - Homework 9 - Program IV.2

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The following code plots the derivative of the supernecklace function:

```

/*****
 * Author:   Matt Tyler
 *
 * Description: Plots the derivative of the supernecklace generating function.
 *
 * Usage example:
 *   java-algs4 Supernecklace
 *****/

public class Supernecklace implements ComplexFunction
{
    public Complex eval(Complex z)
    { // 1/((1 - z) (1 + ln(1 - z)))
        Complex one = new Complex(1, 0);
        Complex a = one.minus(z);
        Complex b = one.plus(a.log());
        return a.times(b).reciprocal();
    }

    public static void main(String[] args)
    { Plot2Dez.show(new Supernecklace(), 512); }
}

```

It produces the following plot:

