Laplace Transform Pairs (4A)

Young Won Lim 12/22/14 Copyright (c) 2014 Young W. Lim.

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y = linspace(-5, 5, 1001); s = 3 + i*y; z = 1 ./ s;

plot(y, arg(z));

y = linspace(-5, 5, 1001); s = -3 + i*y; z = 1 ./ s;

plot(y, arg(z));



x = linspace(-5, 5, 1001); s = x + i*3; z = 1 ./ s;

plot(x, arg(z));

x = linspace(-5, 5, 1001); s = x - i*3; z = 1 ./ s;

plot(x, arg(z));

References

- [1] http://en.wikipedia.org/
- [2] http://planetmath.org/
- [3] M.L. Boas, "Mathematical Methods in the Physical Sciences"
- [4] E. Kreyszig, "Advanced Engineering Mathematics"
- [5] D. G. Žill, W. S. Wright, "Advanced Engineering Mathematics"
- [6] T. J. Cavicchi, "Digital Signal Processing"
- [7] F. Waleffe, Math 321 Notes, UW 2012/12/11
- [8] J. Nearing, University of Miami
- [9] http://scipp.ucsc.edu/~haber/ph116A/ComplexFunBranchTheory.pdf