MATLAB:

University of California, Davis

Computer LAB for Linear Algebra

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MATH 22AL

LAB # 10

10 Division of Complex Numbers:

We can divide a complex number by another complex number .

$$\frac{c_1}{c_2} = \frac{a+ib}{a'+ib'} = \frac{c_1\overline{c}_2}{c_2\overline{c}_2} = (\frac{aa'+bb'}{a'^2+b'^2}) - (\frac{ab'+a'b}{a'^2+b'^2})i$$

type	z21 = 3 - 5i	
type	z22 = 2 + 9i	
type	z23 = 4 - 7i	
type	z24 = 1/z21	
type	z25 = 1/z22	
type	z26 = 1/z23	
type	z27 = z21/z22	
type	z28 = z22 * conj(z22)	
type	z29 = z21 * conj(z22)	
type	z30 = z21 * conj(z22)/z22 * conj(z22)	