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*16/eng06/019*

*Eng281 Assignment*

*1.
Clear: To clear variables in work space*

*Clc: To clear variables in command window*

*commandwindow*

*clear*

*clc*

*A = [ 2 3 7 9 4;3 7 9 12 5;4 8 5 6 9;5 9 2 4 5;6 2 3 7 8 ]*

*Alpha = det(A)*

*Bravo = transpose(A)*

*Charlie = inv(A)*

*A = 2 3 7 9 4*

 *3 7 9 12 5*

 *4 8 5 6 9*

 *5 9 2 4 5*

 *6 2 3 7 8*

*Alpha= -765.0000*

 *Bravo= 2 3 4 5 6*

 *3 7 8 9 2*

 *7 9 5 2 3*

 *9 12 6 4 7*

 *4 5 9 5 8*

 *Charlie = 1.8915 -1.4026 -0.3124 0.7843 -0.2078*

 *-0.4379 0.3268 0.0523 -0.0392 -0.0196*

 *2.5725 -1.8392 -0.0863 0.7647 -0.5176*

 *-1.8876 1.4654 0.0105 -0.6078 0.3961*

 *-0.6222 0.3778 0.2444 -0.3333 0.1333*

 *[ 1447/765, -1073/765, -239/765, 40/51, -53/255]*

*[ -67/153, 50/153, 8/153, -2/51, -1/51]*

*[ 656/255, -469/255, -22/255, 13/17, -44/85]*

*[ -1444/765, 1121/765, 8/765, -31/51, 101/255]*

*[ -28/45, 17/45, 11/45, -1/3, 2/15]*

*2.
 commandwindow*

 *clear*

 *clc*

 *A = [ 0 10 4 -2;-3 -17 1 2;1 1 1 0;8 -34 16 -10 ]*

 *B = [-4;2;6;4]*

 *X = inv (A)\*B*

 *A = 0 10 4 -2*

 *-3 -17 1 2*

 *1 1 1 0*

 *8 -34 16 -10*

*B = -4*

 *2*

 *6*

 *4*

*X = 4.0000*

 *-0.0000*

 *2.0000*

 *6.0000*