hw#3 matlab

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| trials = 100000;    figure(1);  B\_vector = random('Binomial', 20, 0.2, [1, trials]);    for i =1:21  count (i, 1) = i-1 ;  count (i, 2) = sum( (i-1) == B\_vector );  end  pvec1 = count(:, 2)/trials;  bar ( count(:, 1), pvec1);  title('Binomial','Fontweight','bold')  clear count;    figure(2);  G\_vector = random('Geometric', 0.1, [1, trials]);    for i =1:21  count (i, 1) = i-1 ;  count (i, 2) = sum( (i-1) == G\_vector );  end  pvec2 = count(:, 2)/trials;  bar ( count(:, 1), pvec2);  title('Geometric','Fontweight','bold')  clear count;    figure(3);  P\_vector = random('Poisson', 3, [1, trials]);    for i =1:21  count (i, 1) = i-1 ;  count (i, 2) = sum( (i-1) == P\_vector );  end  pvec3 = count(:, 2)/trials;  bar ( count(:, 1), pvec3);  title('Poisson','Fontweight','bold')  clear count;    figure(4);  B1\_vector = random('Binomial', 4, 0.25, [1, trials]);  B1\_function = (B1\_vector-1).^2;    for i =1:21  count (i, 1) = i-1 ;  count (i, 2) = sum( (i-1) == B1\_function );  end  pvec4 = count(:, 2)/trials;  bar ( count(:, 1), pvec4);  title('Function Reflected','Fontweight','bold')  clear count; |



