Math 17: Quiz 2   Name: _____

For full credit you must show your work. Partial credit may be given for incorrect solutions if sufficient work is shown.

1. Consider the weighted voting system $[q : 17, 14, 6, 3]$.

   (a) Which value(s) of q cause gridlock? (1 pt)

   (b) Which value(s) of q can result in anarchy? (1 pt)

2. Consider the weighted voting system $[8 : 5, 4, 3]$.

   (a) Compute the Banzhaf power distribution. (4pts)

   (b) Compute the Shapley-Shubik power distribution. (4pts)