Group_____ Names_____

Group Quiz for Section 2.4

1. Peter and Juliette play darts. Peter hits the bullseye with probability p and Juliette hits it with probability j. Whoever hits the bullseye first wins. Peter goes first. Let X be the number of times Juliette throws the dart. Find the probability mass function of X. *Reminder*: it's often useful to write a general even number as $2k$ and a general odd number as $2k - 1$.