Problem Set 1 Due Tuesday February 5

In my diagrams, SB=small blind, BB=big blind, B=button (i.e. dealer)

You are playing no limit hold’em with $1-$2 blinds. You currently have $200.

You are dealt K♥Q♥.

**Preflop**
Player 1 calls. Player 2 folds. You raise to $10 you are called by Player 7 and Player 1. The pot now contains $32.

**The Flop** K♦Q♦3♦
Player 1 bets $25. You raise to $60. Player 7, who has more money than you raises all-in. Player 2 folds. It will cost you your remaining $130 to call.

Assume that Player 7 has made a flush and that in order to win you will need to either make a full house or four K or Q.

1) What is the probability that you will win the hand? Explain your reasoning.

2) Should you call? Why?

3) Is the assumption that Player 7 has a flush reasonable? How might this effect your decision?

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1This question is optional. It is a poker strategy question rather than a strictly mathematical question