Tip for RHW 3

The difference betwee

I: phyper (c(1), m=15, n=85, k=10, lower.tail = False)

and

II: 1-phyper (c(0), m=15, n=85, k=10, lower.tail=True)

One thing you have to pay attention (and I failed to mention in the instruction, sorry!) is

lower.tail=True =>
$$P(X \le 1)$$

lower.tail=False => $P(X > 1)$

Therefore, I. expression means $P(X>1) = P(X\geq 2)$, while II. expression is 1- $P(X\leq 0)$. If you want these two to be equal $(P(X\geq 1))$, it has to be set as

phyper(
$$c(0)$$
,m=15, n=85, k=10, lower.tail=False) <= $P(X \ge 1)$

OR

1-phyper(c(0), m=15, n-85, k=10, lower.tail=True) \leq 1-P(X \leq 0) = P(X \geq 1)

This fact applies to all other distributions as well. Hope this will solve your problem.