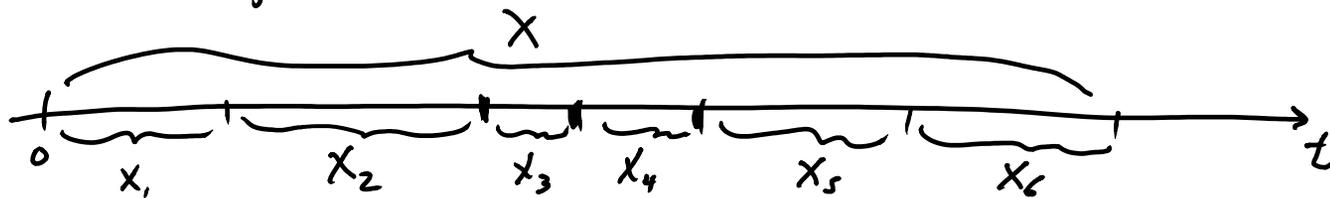


Visualization about Gamma random variables.

Say X is a Gamma random variable with $\lambda = \frac{3}{4}$ and $r = 6$.

Then X has the same distribution as $X_1 + X_2 + \dots + X_6$
where the X_j 's are independent exponential random variables.



Think: X is the total waiting time until the 6th event occurs.

X_1 is the time until the 1st event

X_2 is the time after the first event until the second event

X_3 is the time after the second event until the third event

.....

X_6 is the time after the fifth event until the sixth event.