A fair coin is tossed a fixed number of times. If the probability of getting I heads is equal to probability of getting getting 9 heads, then the probability of getting 2 heads is:

of getting 2 heads 
$$\frac{15}{212}$$
 (2)  $\frac{15}{213}$  (3)  $\frac{15}{214}$  (4)  $\frac{15}{28}$ 

Aux; 
$$P(x=9) = P(X=7)$$

$$\Rightarrow c_9(\frac{1}{2})^{n-9}x(\frac{1}{2})^9 = c_7(\frac{1}{2})^7(\frac{1}{2})^7$$

$$\Rightarrow c_9(\frac{1}{2})^2 = (\frac{1}{2})^2 \times c_7$$

$$= \frac{1}{2} \frac{$$

$$=\frac{15}{2^{13}}$$