

ĐÁP ÁN TOÁN 10 HK2 (23-24)

CÂU 1:

$$\begin{aligned}\left(\frac{1}{2} - x\right)^5 &= C_5^0 \left(\frac{1}{2}\right)^5 - C_5^1 \left(\frac{1}{2}\right)^4 x + C_5^2 \left(\frac{1}{2}\right)^3 x^2 - C_5^3 \left(\frac{1}{2}\right)^2 x^3 + C_5^4 \left(\frac{1}{2}\right) x^4 - C_5^5 x^5 \\ &= \frac{1}{32} - \frac{5}{16}x + \frac{5}{4}x^2 - \frac{5}{2}x^3 + \frac{5}{2}x^4 - x^5\end{aligned}$$

CÂU 2:

- Bán kính

$$R = d(I, \Delta)$$

$$= \frac{2}{\sqrt{5}}$$

$$\Rightarrow (C): (x+1)^2 + (y-2)^2 = \frac{4}{5}$$

CÂU 3:

$$*F(-3;0) \Rightarrow c = 3$$

$$*Qua M(5;0) \Rightarrow a = 5$$

$$\Rightarrow b^2 = 16$$

$$\Rightarrow ptct(E): \frac{x^2}{25} + \frac{y^2}{16} = 1$$

CÂU 4:

- Không gian mẫu : $n(\Omega) = C_{27}^7$
- Gọi A là biến cố chọn 7 bi có đúng 2 màu

$$X, Đ: C_{17}^7 - C_8^7 - C_9^7 = 19404$$

$$X, V: C_{18}^7 - C_8^7 - C_{10}^7 = 31696$$

$$Đ, V: C_{19}^7 - C_9^7 - C_{10}^7 = 50232$$

$$\Rightarrow n(A) = 101332$$

$$\Rightarrow P(A) = \frac{4606}{40365}$$