

$$B = \int_1^4 \frac{1+x}{\sqrt{x}} dx \quad ; \quad A = \int_{-1}^1 (x+1)^2 dx \quad \text{احسب}$$

$$C = \int_0^{\frac{\pi}{2}} \cos \left(2x - \frac{\pi}{3} \right) dx$$

$$D = \int_1^e x^5 \ln x dx \quad (\text{استعمل مكاملة بالاجزاء})$$

$$E = \int_0^{\frac{1}{2}} \frac{x^2}{\sqrt{1-x^2}} dx \quad (\text{استعمل تغيير المتغير، } x = \sin t, t \in \left[0, \frac{\pi}{2} \right])$$