

Let  $\alpha$  and  $\beta$  be the distinct roots of  $ax^2+bx+c=0$ , then  $\lim_{x \rightarrow \alpha} \frac{1 - \cos(ax^2 + bx + c)}{(x - \alpha)^2}$  is equal to (2005)

1)  $\frac{a^2}{2}(\alpha - \beta)^2$

2) 0

3)  $-\frac{a^2}{2}(\alpha - \beta)^2$

4)  $\frac{1}{2}(\alpha - \beta)^2$