



## 11 sinf tanlov Algebradan 2 – BSB savollari

### DEMO variant

1. Berilgan funksiyalarning hosilasini toping: **(4 ball)**

a)  $e^{\cos^2 x}$

b)  $\ln(2x^3 - \cos x)$

2. Funksiya grafigiga absissasi  $x_0$  nuqtada o'tkazilgan urinma tenglamasini yozing: **(4 ball)**

$$y = e^{1-2x} \cdot \sin \frac{\pi x}{2}; \quad x_0 = 1$$

3. Funksiya grafigiga absissasi  $x_0$  bo'lgan nuqtada o'tkazilgan normal tenglamasini toping: **(4 ball)**

$$f(x) = 3x^2 - 5x + 1; \quad x_0 = 1$$

4. Funksiyaning eng katta qiymatini toping: **(4 ball)**

$$f(x) = \sqrt{1 - 2x - 2x^2}$$

5. Berilgan funksiyaning  $[3; 6]$  kesmadagi eng katta va eng kichik qiymatlari ayirmasini toping. **(4 ball)**

$$y = \log_{\frac{1}{3}}(2x^2 + 2x + 3)$$