

MCHQ-5 δ 6 m δ n i a e n

1(e), 2(b), 3(a), 4(a), 5(c)

$$I_1 = \int_{-1}^1 e^{x^2} (x + x^3) dx = 0$$

.4

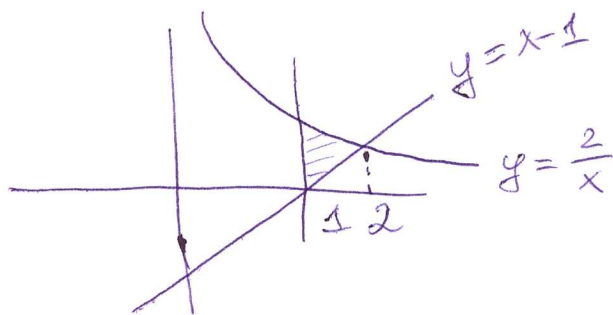
↓
 א'ב'ס-ה א'ב'ר'א
 'סב'ו א'ב'ר'א

$$I_2 = \int_0^{\frac{\pi}{2}} \underbrace{e^{x^2} \sin x}_{\text{א'ב'ר'א}} dx > 0$$

$$I_3 = \int_{\frac{\pi}{2}}^{\pi} \underbrace{e^{x^2} \cos x}_{\text{א'ב'ר'א}} dx < 0$$

$$I_3 < I_1 < I_2 \quad \Leftarrow$$

(a) א'ב'ר'א א'ב'ר'א \Leftarrow



.5

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

$$x^2 - x - 2 = 0, \quad x > 0$$

$$x = 2$$

$$S = \int_1^2 \left[\frac{2}{x} - x + 1 \right] dx$$

(c) א'ב'ר'א א'ב'ר'א \Leftarrow