

السؤال الرابع

$$\text{أوجد: } \left[\frac{s}{s^2 - 3} \right]_{s^3}$$

الحل

$$\left[s^2 (s^2 - 3) \right]_{s^3}$$

$$= \frac{1}{2} \left[s^2 (s^2 - 3) \right]_{s^3}$$

$$= \frac{1}{2} s^2 = s$$

$$s = \frac{1}{2} s^2 (s^2 - 3) \quad \text{هـ} \quad s = \frac{1}{3} s^3 (s^2 + 5) \quad \text{حـ}$$

$$= s^2 \times \frac{1}{2} (s^2 - 3) + \frac{1}{3} s^3 (s^2 + 5)$$

$$= \frac{1}{2} s^4 - \frac{3}{2} s^2 + \frac{1}{3} s^5 + \frac{5}{3} s^3$$

