

اوراق عمل (٥) / العلمي + الصناعي

جد التكاملات التالية :

$$(1) \int \frac{ds}{s^2}$$

$$(2) \int \frac{ds}{s^4}$$

$$(3) \int \frac{ds}{s^5(2+3s)}$$

$$(4) \int \frac{ds}{s^2(4+s^3)}$$

$$(5) \int \frac{ds}{s \cdot \ln(s)}$$

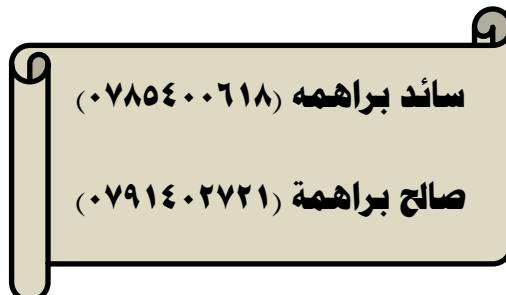
$$(6) \int \frac{ds}{\ln(s)}$$

$$(7) \int \frac{ds}{s^2 - h^2}$$

$$(8) \int \frac{ds}{s^{8+2} - s^{8-2}}$$

$$(9) \int \frac{ds}{s^5 + s^3 + s^2}$$

$$(10) \int \ln(s)^2 ds$$



$$\left. \begin{array}{l} \text{لوس} \\ \text{مس} \end{array} \right\} (11)$$

$$(12) \text{ اثبت أن : } \left. \begin{array}{l} \text{قتاس مس} = \text{لو} \left| \frac{1}{2} \text{س} + ج \right. \end{array} \right\}$$

$$(13) \left. \begin{array}{l} \text{قتا مس مس} \end{array} \right\}$$

$$\left. \begin{array}{l} \text{لو}^2 \text{مس} \\ \text{مس} \end{array} \right\} (14)$$

$$\left. \begin{array}{l} \text{مس} \\ \overline{\text{مس}} \end{array} \right\} (15)$$

$$\left. \begin{array}{l} \text{جا}^2 \text{مس} \text{لو} \text{جا}^2 \text{مس} \\ \text{مس} \end{array} \right\} (16)$$

$$(17) \left. \begin{array}{l} \text{قا}^2 \text{مس} \text{لو} \text{ظا}^2 \text{مس} \\ \text{مس} \end{array} \right\}$$

$$\left. \begin{array}{l} \text{مس جاس} + 2 \text{جناس} - 2 \text{مس} \\ \text{مس}^3 \end{array} \right\} (18)$$

$$\left. \begin{array}{l} 1 \\ \text{جاس} + \text{جناس} \end{array} \right\} (19)$$

