

# MATEMATIK TAMBAHAN TINGKATAN 5

**MARKAH**

**BAB  
3**

**PENGAMIRAN**

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Menentukan nilai kamiran  
tentu bagi fungsi algebra

Jawab semua soalan dengan menaip  
jawapan yang tepat dalam ruangan  
yang disediakan

$$\begin{aligned} 1) \int_0^2 (x + 5) \, dx &= \left[ \frac{\boxed{\phantom{000}}}{\boxed{\phantom{00}}} + \boxed{\phantom{00}} \right] \boxed{\phantom{00}} \\ &= \boxed{\phantom{00}} + \boxed{\phantom{00}} \\ &= \boxed{\phantom{00}} \end{aligned}$$

$$\begin{aligned} 2) \int_4^5 \frac{10}{(x - 3)^2} \, dx &= \left[ -\frac{\boxed{\phantom{00}}}{\boxed{\phantom{000}}} \right] \boxed{\phantom{00}} \\ &= \boxed{\phantom{00}} + \boxed{\phantom{00}} \\ &= \boxed{\phantom{00}} \end{aligned}$$

$$\begin{aligned}
 \text{3) } \int_{-3}^{-1} (2x^2 - 1) \, dx &= \left[ \frac{\boxed{\phantom{000}}}{\boxed{\phantom{00}}} - \boxed{\phantom{00}} \right] \boxed{\phantom{00}} \\
 &= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - (\boxed{\phantom{00}}) \\
 &= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{4) } \int_0^1 16(2 + 4x)^3 \, dx &= \left[ \left( \boxed{\phantom{000}} \right)^{\boxed{\phantom{00}}} \right]_0^1 \\
 &= \boxed{\phantom{000}} + \boxed{\phantom{000}} \\
 &= \boxed{\phantom{000}}
 \end{aligned}$$

$$\begin{aligned}
 \text{5) } \int_2^3 \frac{24}{(3x - 5)^3} \, dx &= \left[ -\frac{\boxed{\phantom{00}}}{(\boxed{\phantom{00}})^{\boxed{\phantom{00}}}} \right] \boxed{\phantom{00}} \\
 &= -\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - (\boxed{\phantom{00}}) \\
 &= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}
 \end{aligned}$$