



(6)

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~~$$\int \sec^2(x) dx$$~~
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$$d) \int_0^4 (x+3)(x+2) dx$$

$$\int (x+3) \cdot (x+2) dx$$

$$\int x^2 + 2x + 3x + 6 dx$$

$$\int x^2 + 5x + 6 dx$$

$$\int x^2 dx + \int 5x dx + \int 6 dx$$

$$\left(\frac{x^3}{3} + \frac{5x^2}{2} + 6x \right) \Big|$$

$$\frac{4^3}{3} + \frac{5 \times 4^2}{2} + 6 \times 4 - \left(\frac{0^3}{3} + \frac{5 \times 0^2}{2} + 6 \times 0 \right) = \underline{\underline{\frac{256}{3}}}$$

$$e) \int_2^3 x(x+1) + e^x dx$$

$$\int x^2 + x + e^x dx$$

$$\int x^2 dx + \int x dx + \int e^x dx$$

$$\left(\frac{x^3}{3} + \frac{x^2}{2} + e^x \right) \Big|_2^3$$

$$\underline{\underline{\frac{53}{6} + e^3 - e^2}}$$

$$\frac{3^3}{3} + \frac{3^2}{2} + e^3 - \left(\frac{2^3}{3} + \frac{2^2}{2} + e^2 \right)$$

