

### Answer on Question#50936 – Math – Integral Calculus

**Question.** Integrate with respect to  $Q$ :  $\int_0^{\frac{\pi}{3}}(2 \sin Q - 5 \cos Q)dQ$ .

**Solution.**  $\int_0^{\frac{\pi}{3}}(2 \sin Q - 5 \cos Q)dQ = (-2 \cos Q - 5 \sin Q)\Big|_{Q=0}^{\frac{\pi}{3}} = -2 \cdot \frac{1}{2} - 5 \cdot \frac{\sqrt{3}}{2} + 2 - 0 =$   
 $= 1 - \frac{5\sqrt{3}}{2} = \frac{2-5\sqrt{3}}{2}.$

**Answer.**  $\frac{2-5\sqrt{3}}{2}.$

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