

$$A = \int_0^3 (t^2 + 1) dt$$

$$B = \int_3^4 \frac{1}{t^2} dt$$

$$C = \int_1^2 \left(\frac{1}{t^3} + \frac{1}{t} \right) dt$$

$$D = \int_2^8 \left(\frac{5}{\sqrt{t}} \right) dt$$

$$E = \int_{\frac{\pi}{12}}^{\frac{\pi}{8}} \cos(2t) dt$$

$$F = \int_0^{\frac{\pi}{6}} \cos t (\sin t)^2 dt$$

$$G = \int_1^e \left(\frac{\ln t}{t} \right) dt$$

$$H = \int_1^2 \left(\frac{1}{\sqrt{3t-1}} \right) dt$$

$$J = \int_{-1}^1 e^{2t+3} dt$$

$$K = \int_0^1 3te^{t^2+1} dt$$