

$$\textcircled{1} \int_0^1 \frac{1}{\sqrt{4-3x^2}} dx \quad \text{use } x = \frac{2}{\sqrt{3}} \sin \theta$$

$$R = -2 \cos 2\alpha + C$$

$$M = \frac{5}{2}x + \sin^2 x + \frac{1}{4} \sin 2x + C$$

$$\textcircled{2} \int (\sin x + 2 \cos x)^2 dx$$

$$Q = 1 - \sqrt{3}$$

$$U = \sqrt{3} + 1 - \frac{\pi}{2}$$

$$P = \frac{5}{2}x + \sin^2 x + C$$

$$\textcircled{3} \int \frac{1}{\sin^2 x \cos^2 x} dx$$

$$J = \frac{1}{3} (4x-1)^{3/2} + (4x-1)^{1/2} + C$$

$$T = 2 - \ln 4$$

$$Y = 3 + \ln 8$$

$$E = 1 + \sqrt{3}$$

$$N = -\frac{1}{8}x + \frac{1}{32} \sin 4x + C$$

$$\textcircled{4} \int_0^{\ln 2} 4x e^{-x} dx$$

$$P = \frac{\pi \sqrt{3}}{9}$$

$$\textcircled{5} \int_1^e \ln x dx$$

$$V = \sqrt{3} - 1 - \frac{\pi}{2}$$

$$\textcircled{6} \int_1^{\sqrt{3}} \frac{x^2}{x^2+1} dx \quad \text{use } x = \tan \theta$$

$$O = \frac{1}{8}x - \frac{1}{32} \sin 4x + C$$

$$D = \frac{1}{3} (4x-1)^{3/2} - (4x-1)^{1/2} + C$$

$$\textcircled{7} \int_0^{\ln 4} x e^{1/x} dx$$

$$S = 2 \cos 2x + C$$

$$G = 4 \ln 2 - 8$$

$$H = 4\sqrt{2} + 1$$

$$\textcircled{8} \int_0^{\pi/3} \frac{1}{1-\sin x} dx$$

$$O = \frac{5}{2}x + 2 \sin^2 x + \frac{3}{4} \sin 2x + C$$

$$I = 8 \ln 2 - 4$$

$$\textcircled{9} \int \frac{8x}{\sqrt{4x-1}} dx$$

$$Y = -2 \cos 2x + C$$

$$V = \frac{5}{2}x + 2 \sin^2 2x + \frac{3}{4} \sin 2x + C$$

$$K = \pi \sqrt{3}$$

$$\textcircled{10} \int \cos^2 x \sin^2 x dx$$

$$O = 1$$

$$L = 2 \tan 2x + C$$

$$E = \frac{1}{3} (4x-1)^{3/2} + \frac{2}{3} (4x-1)^{1/2} + C$$

The correct letters spell a town in Ecuador