$$I = \int_{0.3}^{1} \frac{1}{18\pi^{2} + 8\pi^{2} + 19\pi} dx$$

$$= \int_{0.3}^{1} \frac{1}{18\pi^{2} + 8\pi + 19\pi} dx$$

$$= \frac{1}{100} \frac{1}{100$$

$$T = \int \frac{7/9}{n} + \frac{-7/9 n - 8/19}{n^2 + 8n + 19} dn$$

$$= \frac{1}{19} \int n dn + \int dn.$$
Note that $\frac{1}{4} \left(\ln \left(\frac{1}{n} + 8 + \frac{1}{9} \right)^{-1} \right) = \frac{2n + 8}{n^2 + 8n + 19}$
So introduce the numerchar
$$2n + 8 \text{ by reunity the numerchar}$$

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as
$$-\frac{1}{19} n - \frac{8}{19} = -\frac{1}{38} (2n + 8) - \frac{8}{38}$$
So we can write.
$$\int \frac{-19 n - \frac{8}{19}}{n^2 + 8n + 19} dn$$

$$= \int -\frac{1}{38} (2n + 8) dn - \frac{8}{38} \int \frac{1}{n^2 + 8n + 19} dn$$

$$= -\frac{1}{38} \ln \left(n^2 + 8 + \frac{19}{38} \right) - \frac{8}{38} \int \frac{1}{n^2 + 8n + 19} dn$$

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Then deal with this last integral using atom formula. Completing the source of the denousely 22+8x+15= (x+4) +3. $\frac{80}{n^2+8n+n} = \frac{1}{(n+1)^2+3}$ $=\frac{1}{3}\left(\frac{n}{(\frac{n}{\sqrt{3}}+\frac{4}{\sqrt{3}})^2+1}\right)$ -3/3 (N/8 + 14)2+1













