$$\frac{E \times 26}{\int_{1}^{6} \frac{3}{x} dx} = \left[3 \ln(x) \right]_{1}^{6} = 3 \ln(4) - 3 \ln(4) = 3 \ln(4)$$

$$\int_{1}^{6} \left(x - \frac{2}{x} \right) dx = \left[\frac{x^{2}}{2} - 2 \ln(x) \right]_{1}^{6} = \frac{4}{2} - 2 \ln(4) - \left(\frac{1}{2} - 2 \ln(4) \right) = \frac{4}{2} - 2 \ln(4) = \frac{4}{2} - 2 \ln(4) = \frac{4}{2} - 2 \ln(4) = \frac{4}{2} - 2 \ln(4)$$

$$= \frac{4}{2} - 2 \ln(4)$$

$$\frac{E \times 27}{\int_{0}^{1} \left(x + 2 + \frac{1}{x + 2} \right) dx = \left[\frac{x^{2}}{2} + 2 x + \ln(x + 2) \right]_{0}^{6} = \frac{4}{4} - 2 \ln(4)$$

$$= \frac{4}{4} - 2 \ln(4) - 2 \ln(4) = \frac{4}{4} - 2 \ln(4) = \frac{4}{4} - 2 \ln(4)$$

$$= \frac{1}{2} + 2 + 2 \ln(3) - 2 \ln(4) = \frac{4}{4} - 2 \ln(4) = \frac{4}{4} - 2 \ln(4)$$

$$= \frac{1}{2} + 2 + 2 \ln(3) - 2 \ln(4) = \frac{5}{2} + 2 \ln(4)$$

$$= \frac{1}{2} + 2 + 2 \ln(3) - 2 \ln(4) = \frac{5}{2} + 2 \ln(4)$$

$$= \frac{1}{2} + 2 + 2 \ln(3) - 2 \ln(4) = \frac{5}{2} + 2 \ln(4)$$

$$= \frac{1}{2} - 2 \ln(4) = \frac{1}{2} \ln(4) = \frac{1}{2} \ln(4) = \frac{1}{2} \ln(2)$$

$$= \frac{1}{2} \ln(4) + 2 \ln(4) = \frac{1}{2} \ln(4) = \frac{1}{2} \ln(2)$$

$$\int_{0}^{\ln(2)} (e^{t} + e^{2t}) dt$$

$$\int_{0}^{e^{t}} dt = e^{t} + C$$

$$\int_{0}^{e^{2t}} dt = \int_{0}^{e^{u}} dt \quad \text{avec} \quad u = 2t = 7 \quad u' = 2$$

$$= \frac{1}{2} \int_{0}^{2e^{t}} dt = \frac{1}{2} e^{2t} + C$$

$$\int_{0}^{\ln(2)} (e^{t} + e^{2t}) dt = \left[e^{t} + \frac{1}{2} e^{2t} \right]_{0}^{\ln(2)} = \frac{1}{2} e^{2t} e^{2t}$$

$$= e^{\ln(2)} + \frac{1}{2} e^{2\ln(2)} - \left(e^{u} + \frac{1}{2} e^{u} \right) = \frac{1}{2} e^{2t} e^{2t} e^{2t}$$

$$= 2 + \frac{1}{2} e^{2\ln(2)} - \left(e^{u} + \frac{1}{2} e^{u} \right) = \frac{1}{2} e^{2t} e^{2t} e^{2t} e^{2t}$$

$$= 2 + \frac{1}{2} e^{2\ln(2)} - \left(e^{u} + \frac{1}{2} e^{u} \right) = \frac{1}{2} e^{2t} e^{2t} e^{2t} e^{2t}$$

$$= 2 + \frac{1}{2} e^{2\ln(2)} - \left(e^{u} + \frac{1}{2} e^{u} \right) = \frac{3}{2} e^{2t} e^$$

$$\int_{1}^{2} \frac{x e^{x} + 1}{x} dx = \int_{1}^{2} (x^{2} + h x) dx = \frac{x^{1}}{h} + h \frac{x^{2}}{2}$$

$$\int_{1}^{2} \frac{x e^{x} + 1}{x} dx = \int_{1}^{2} (x^{2} + \frac{1}{x}) dx = \int_{1}^{2} (e^{x} + \frac{1}{x}) dx =$$

$$= \left[e^{x} + \ln(x) \right]_{1}^{2} = e^{2} + \ln(2) - \left(e^{1} + \ln(1) \right) =$$

$$= e^{2} + \ln(2) - e$$

$$\frac{E \times 30}{\int_{0}^{\ln(2)} (e^{x} - e^{-x}) dx}$$

$$\int e^{x} dx = e^{x}$$

$$\int e^{-x} A_{x} = \int e^{u} dx \qquad u = -x \Rightarrow u' = -1$$

$$= -\int (-1) e^{-x} dx = -e^{-x}$$

$$\int_{0}^{\ln(2)} (e^{x} - e^{-x}) dx = \left[e^{x} - (-e^{-x}) \right]_{0}^{\ln(2)} =$$

$$= \left[e^{x} + e^{-x} \right]_{0}^{\ln(2)} =$$

$$= e^{\ln(2)} + e^{-\ln(1)} - \left(e^{x} + e^{x} \right) =$$

$$= 2x + \frac{1}{e^{\ln(2)}} - x = \frac{1}{2}$$

$$\int_{e}^{e^{-\frac{1}{x}}} \frac{1}{x \ln |x|} dx = u = \ln(x) = u = \frac{1}{x}$$

$$= \int_{e}^{e^{-\frac{1}{x}}} \frac{u'}{u} dx = \left[\ln(u)\right]_{e}^{e^{-\frac{1}{x}}} = \left[\ln(u)\right]_{e}^{e^{-\frac{1}{x}}} = \left[\ln(u)\right]_{e}^{e^{-\frac{1}{x}}} = \ln(\ln(e^{2})) - \ln(\ln(e)) = \left[\ln(2) - \ln(1)\right] = \ln(2)$$

$$= \ln(2) - \ln(1) = \ln(2)$$

$$= \ln(2) - \ln(2) = \ln(2)$$

$$= \ln(2) - \ln(2)$$

$$=$$

$$= \int \left(\frac{(2x+1)(x+1)}{2x+1} + \frac{1}{x+1}\right) dx =$$

$$= \int \left(x-1 + \frac{1}{x+1}\right) dx =$$

$$= \frac{x^{2}}{2} - x + \ln(x+1) + C$$

$$= \frac{x^{2}}{2} - x + \ln(x+1) + C$$

$$= \frac{1}{2} \int 2x e^{x^{2}+1} dx = \int x e^{x} dx = \frac{1}{2} e^{x^{2}+1} + C$$

$$= \frac{1}{2} \int 2x e^{x^{2}-1} dx = \int (2x-1)(2x+1) = \int x^{2}-1$$

$$= \frac{1}{4} \int \frac{hx^{2}}{2x-1} dx = \frac{1}{4} \int \frac{hx^{2}-1+L}{2x-1} dx =$$

$$= \frac{1}{4} \int \frac{(2x-1)(2x+1)+1}{2x-1} dx =$$

$$= \frac{1}{4} \int \left(\frac{(2x-1)(2x+1)}{2x-1} + \frac{1}{2x-1}\right) dx =$$

$$= \frac{1}{4} \int (2 \times + 1 + \frac{1}{2} \frac{\lambda}{2x-1}) dx =$$

$$= \frac{1}{4} \left(\frac{2x^2}{2} + x + \frac{1}{2} \ln (2x-1) \right) + C =$$

$$= \frac{1}{4} \left(x^2 + x + \frac{1}{2} \ln (2x-1) \right) + C$$

$$= \frac{1}{4} \left(x^2 + x + \frac{1}{2} \ln (2x-1) \right) + C$$

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$$= \frac{1}{4} \left(x^2 + x + \frac{$$