Merry X-mas!

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1 Merry X-mas!

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\begin{aligned}
y &:= \frac{\ln\left(\frac{x}{m} - sa\right)}{r^2} && \text{\# define } y \\
&\Rightarrow\ r^2 y = \ln\left(\tfrac{x}{m} - sa\right) && \text{\# multiply both sides on the left by } r^2 \\
&\Rightarrow\ e^{r^2 y} = e^{\ln\left(\frac{x}{m} - sa\right)} && \text{\# } x = y \Rightarrow b^x = b^y \text{ ; exponentiate with } b = e \\
&\Rightarrow\ e^{r^2 y} = \tfrac{x}{m} - sa && \text{\# } e^{\ln(x)} = x \\
&\Rightarrow\ e^{r^2 y} = \tfrac{x}{m} - as && \text{\# assume multiplication is commutative } (sa = as) \\
&\Rightarrow\ m e^{r^2 y} = x - mas && \text{\# multiply both sides on the left by } m \\
&\Rightarrow\ \mathbf{me^{rry} = x - mas} && \text{\# } r^2 = rr \Rightarrow \textbf{Merry X-mas!}
\end{aligned}
$$

2 LaTeX Source

`https://www.overleaf.com/read/sjrwjgkzzmmd`