

# Merry X-mas!

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$y$	$=$	$\frac{\ln\left(\frac{x}{m} - sa\right)}{r^2}$	# define $y$
$\Rightarrow$	$r^2 y$	$= \ln\left(\frac{x}{m} - sa\right)$	# multiply both sides by $r^2$
$\Rightarrow$	$e^{r^2 y}$	$= \frac{x}{m} - sa$	# exponentiate both sides, noting that $e^{\ln(x)} = x$
$\Rightarrow$	$me^{r^2 y}$	$= x - msa$	# multiply both sides on the left by $m$
$\Rightarrow$	$me^{r^2 y}$	$= x - mas$	# $sa = as$ (assume multiplication is commutative)
$\Rightarrow$	<b>me<sup>rr</sup>y</b>	<b>= x - mas</b>	# $r^2 = rr \rightarrow$ <b>Merry X-mas!</b>