Precalculus Basic algebraic properties of the logarithm

Todor Miley

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Theorem (Properties of Logarithmic Functions)

If a>1, the function $f(x)=\log_a x$ is a one-to-one, continuous, increasing function with domain $(0,\infty)$ and range \mathbb{R} . If x,y,a,b>0 and r is any real number, then