



(I really need to put this on a poster.) I am trying to prove the law of Cosines using the following chart taken from Thomas' Calculus 11th edition. I have an answer, but I think there must be a simpler or better way to do it. Here's my answer: Construct a coordinate system so that \$ (0.0) \$ is located in the lower right corner of the pictured triangle. Then the red line cuts hypotenuse to \$(-a.0)\$ and a leg of \$(-blcos\theta,b\sin\theta)\$. Thus, the squared distance \$\circ\$\$ from \$(-a.0)\$ to \$(-b\cos\theta,b\sin\theta)\$ (begin{align} c^2\&=(-b\cos\theta,b\sin\theta)^2\\ amp;=a^2+b^2-(2ab\cos\theta+b^2\sin\cos\theta,b\sin\theta)\$. Thus, the squared distance \$\circ\$\$ from \$(-a.0)\$ to \$(-b\cos\theta,b\sin\theta,b\sin\theta,b\sin\theta)\$. Thus, the squared distance \$\circ\$\$ from \$(-a.0)\$ to \$(-b\cos\theta,b\sin\theta,b\sin\theta,b\sin\theta,b\sin\theta)^2\\ amp;=a^2+b^2\cos\theta,b\sin\theta,

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