**8.7 Law of Cosines Notes**

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**Proof of Law of Cosines**

**Given: nonright ∆ABC**

**Prove:** $c^{2}=a^{2}+b^{2}-2ab\cos(C)$

**When do I use the Law of Cosines to solve?**

**Ex1**

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**Ex2**

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**Ex 3 Application**



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**Ex4 **



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