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6 Notes - Coord	dinate Proofs	

What are Coordinate Proofs?

Proving conjectures about figures in the coordinate plane. You can use variables in your coordinates to prove conjectures about all figures of a certain type. The following are used heavily in coordinate proofs:

Distance Formula CPCTC

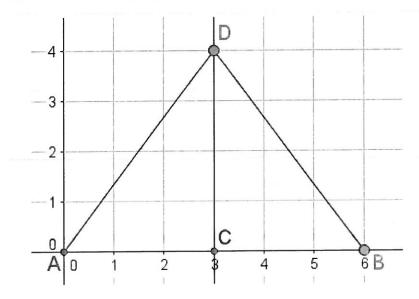
Midpoint Formula SSS Pythagorean Thm

HL

Slopes

Prove angle ADC is congruent to angle BDC.

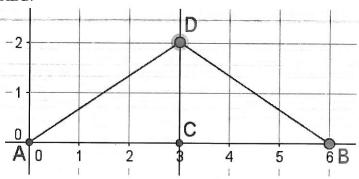
Write a plan for your proof:



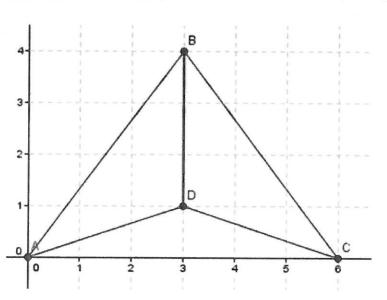
Proof:

Now prove ADB is an isosceles triangle.

2. First write a plan, then prove CD is an angle bisector of angle ADB.



3. First write a plan, then prove DB bisects angle ABC.



Write the congruence theorem that proves the two triangles are congruent. If they are not, write "not congruent".

