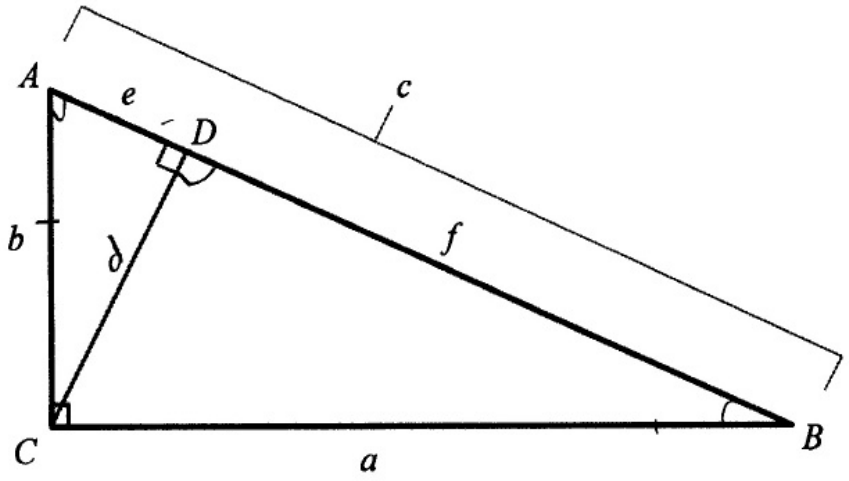
Show that $\Delta ABC \sim \Delta CBD$ and $\Delta ABC \sim \Delta ACD$. Then use these similarities to prove the Pythagorean Theorem ($a^2 + b^2 = c^2$).



Statements	Reasons
$\angle CDB$ is 90°	Def. of Right $\angle$s
$\angle B \cong \angle B$	Reflexive Property
$\Delta ABC \sim \Delta CBD$	AA similarity postulate
$\angle A \cong \angle A$	Reflexive property
$\Delta ABC \sim \Delta ACD$	AA Similarity postulate