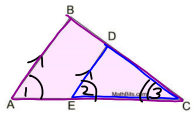
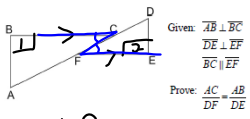
Do Now

Given: $\overline{DE} \parallel \overline{AB}$

Prove: $CD \cdot CA = CE \cdot CB$



S	R
① $\overline{DE} \parallel \overline{AB}$	① Given
② $\angle 1 \cong \angle 2$	② If → →
③ $\angle 3 \cong \angle 3$	③ Reflexive Property
④ $\triangle CDE \sim \triangle CBA$	④ AA~
⑤ $\frac{CD}{CE} = \frac{CB}{CA}$	⑤ Corresponding sides of ~ Δ's are in proportion
⑥ $CD \cdot CA = CE \cdot CB$	⑥ In a proportion the product of the means = the product of the extremes.

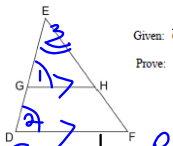


Given: $\overline{AB} \perp \overline{BC}$, $\overline{DE} \perp \overline{EF}$, $\overline{BC} \parallel \overline{EF}$

Prove: $\frac{AC}{DF} = \frac{AB}{DE}$

S	R
① $\overline{AB} \perp \overline{BC}$, $\overline{DE} \perp \overline{EF}$, $\overline{BC} \parallel \overline{EF}$	① Given
② $\angle 1$ & $\angle 2$ are Rt $\angle$'s	② Lines form Rt $\angle$'s
③ $\angle 1 \cong \angle 2$	③ All Rt $\angle$'s are $\cong$
④ $\angle BCA \cong \angle EFD$	④ If → →
⑤ $\triangle ACB \sim \triangle DFE$	⑤ AA~
⑥ $\frac{AC}{DF} = \frac{AB}{DE}$	⑥ Corresponding sides of ~ Δ's are in proportion

Jan 10-8:17 AM



Given: $\overline{GH} \parallel \overline{DF}$

Prove: $EG \cdot EF = ED \cdot EH$

S	R
① $\overline{GH} \parallel \overline{DF}$	① Given
② $\angle 1 \cong \angle 2$	② If → →
③ $\angle 3 \cong \angle 3$	③ Reflexive prop
④ $\triangle EGH \sim \triangle EDF$	④ AA~
⑤ $\frac{EG}{ED} = \frac{EH}{EF}$	⑤ Corresponding sides of ~ Δ's are in prop
⑥ $EG \cdot EF = ED \cdot EH$	⑥ In a prop, the product of the means equals the product of the extremes

Jan 10-8:18 AM

HW

Review Packet

#'s 1-17 odd

Jan 10-12:26 PM