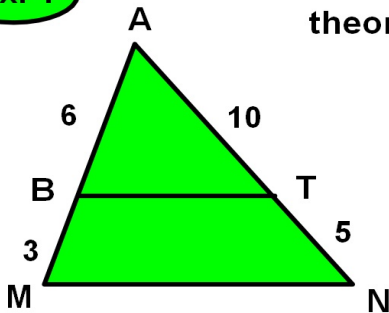


7-5 Theorems for Similar Triangles

Std. 5.0

ex. 1

Name similar triangles. What postulate or theorem justifies the answer?

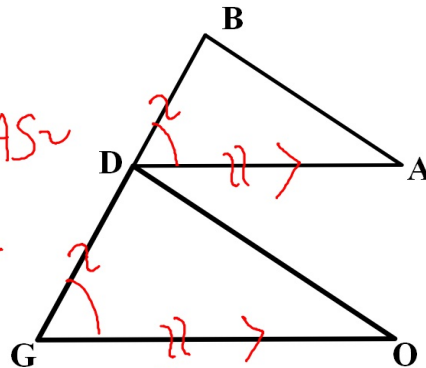


ex. 2

Sec 7-5 Jan. 9

Given: $\overline{DA} \parallel \overline{GO}$, $\frac{BD}{DG} = \frac{DA}{GO}$

Prove: $BA \cdot GO = DO \cdot DA$ SAS~



- | | |
|---|---|
| ① $\overline{DA} \parallel \overline{GO}$, $\frac{BD}{DG} = \frac{DA}{GO}$ | ① Given |
| ② $\angle BDA \cong \angle GDO$ | ② if lines \parallel , corr \angle s \cong |
| ③ $\triangle BDA \sim \triangle DGO$ | ③ SAS~ |
| ④ $\frac{BA}{DO} = \frac{DA}{GO}$ | ④ If Δ s similar, corres. sides proportional |
| ⑤ $BA \cdot GO = DO \cdot DA$ | ⑤ cross-mult. |

