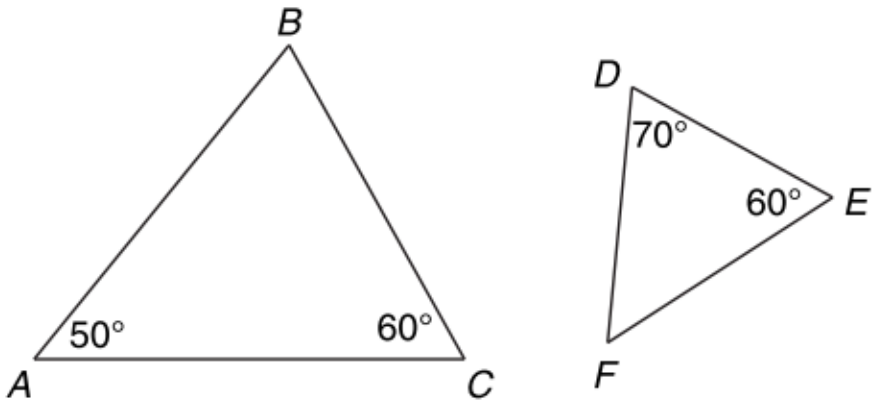
Similarity in Triangles

1. Are the following triangles similar?



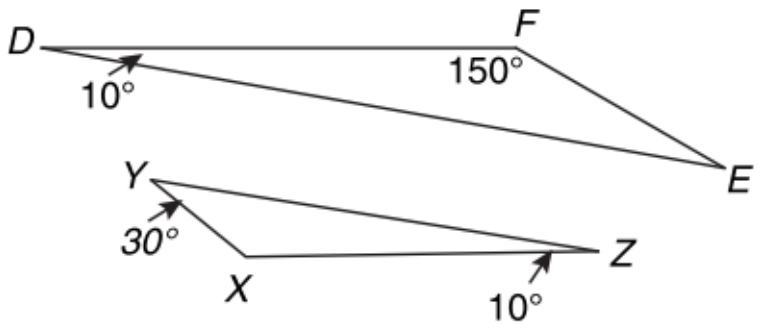
∠B = 180° - 50° - 60°
= 70°

∠F = 180° - 70° - 60°
= 50°
∠B = 180° - 50° - 60°
= 70°

∠B corresponds to ∠D
∠C corresponds to ∠E
∠A corresponds to ∠F

Because all corresponding angle measures are the same, these triangles are similar.

2. Are the following triangles similar?



∠E = 180° - 150° - 10°
= 20°

Neither acute angle in triangle XYZ is 20° , so the triangles are ***not*** *similar.*