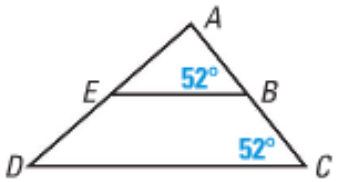
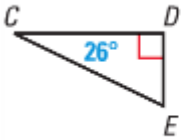
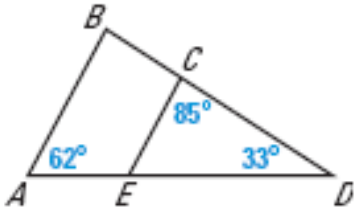
Practice with Similar Triangles

Ex. 1: Practice with AA: Determine if the two triangles are similar by AA.

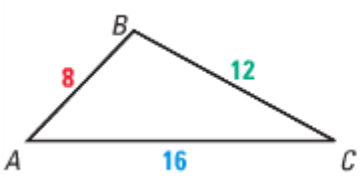
a. ΔABE and ΔACD b. ΔDEC and ΔGHK c. ΔCDE and Δ BDA

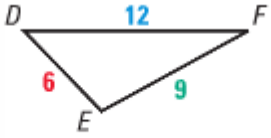


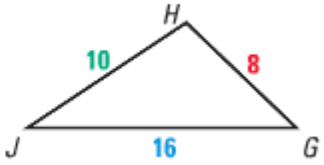




Ex. 2: Practice with SSS: Determine which triangle is similar to ΔABC by SS. Write a similarity statement and find the scale factor?

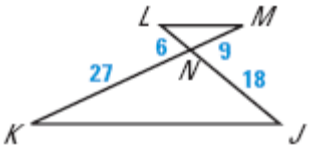




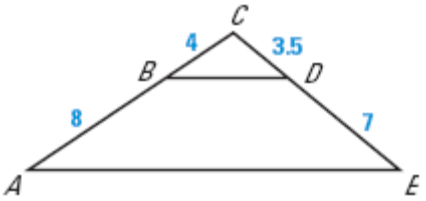


Ex. 3: Practice with SAS: Determine if the two triangles are similar by SAS.

a. ΔLNM and ΔJNK

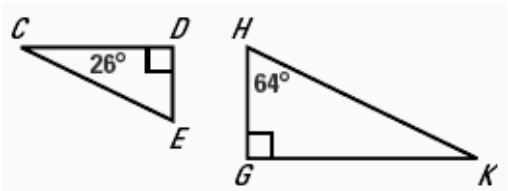


b. ΔCDB and ΔCEA

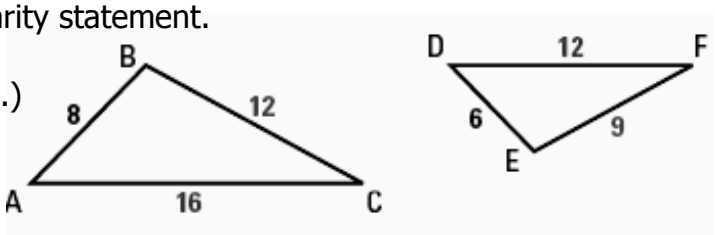


Ex. 4: Mixed Practice: Determine whether the triangles are similar. If they are, state what postulate or theorem you used and write a similarity statement.

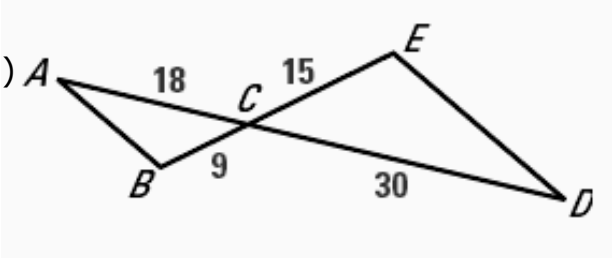
1.)



2.)

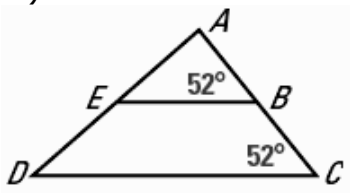


3.)

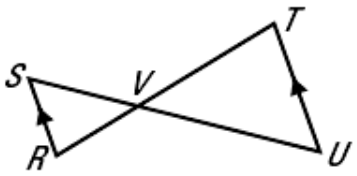


Show that the two triangles are similar. Write a similarity statement.

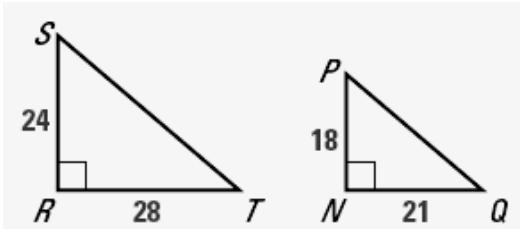
4.) ΔABE and ΔACD



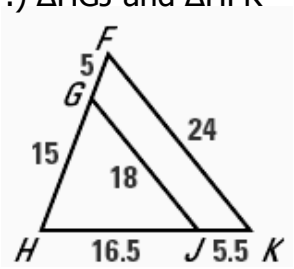
5.) ΔSVR and ΔUVT



6.) ΔSRT and ΔPNQ

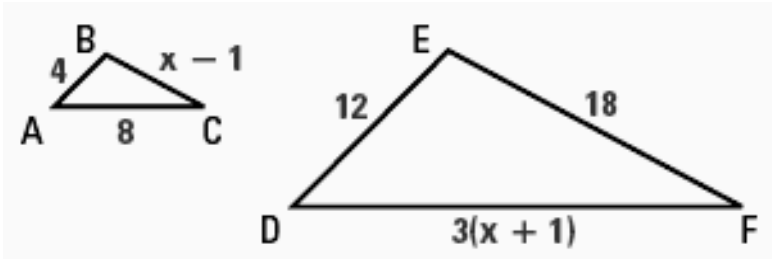


7.) ΔHGJ and ΔHFK



8.) A flagpole casts a shadow that is 50 feet long. At the same time, a woman standing nearby who is five feet four inches tall casts a shadow that is 40 inches long. How tall is the flagpole to the nearest foot?

9.) Find the value of x that makes ΔABC ~ΔDEF.



KEY CONCEPT: If 2 triangles are _____, then they are _____.

As a result, the scale factor will be _____.