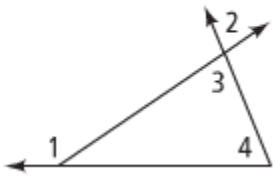
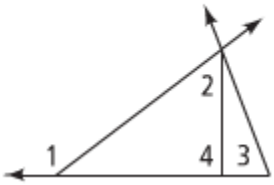
Explain why $m\angle 1 > m\angle 2$.

See Problem 1.

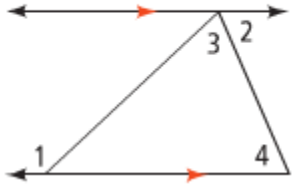
**6.**




**7.**



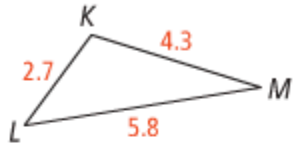

**8.**



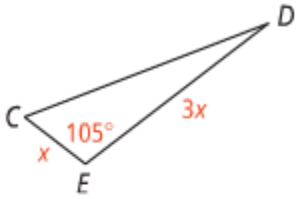

**For Exercises 9–14, list the angles of each triangle in order from smallest to largest.**

See Problem 2.

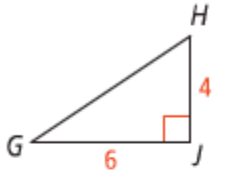
**9.**




**10.**




**11.**




**12.** $\triangle ABC$, where $AB = 8$, $BC = 5$, and $CA = 7$

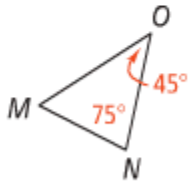
**13.** $\triangle DEF$, where $DE = 15$, $EF = 18$, and $DF = 5$

**14.** $\triangle XYZ$, where $XY = 12$, $YZ = 24$, and $ZX = 30$

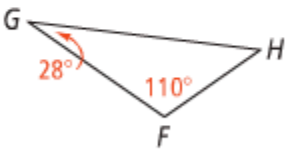
**For Exercises 15–20, list the sides of each triangle in order from shortest to longest.**

See Problem 3.

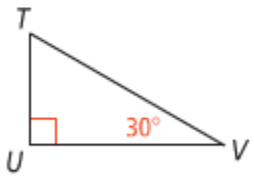
**15.**




**16.**




**17.**




**18.** $\triangle ABC$, with $m\angle A = 90$, $m\angle B = 40$, and $m\angle C = 50$

**19.** $\triangle DEF$, with $m\angle D = 20$, $m\angle E = 120$, and $m\angle F = 40$

**20.** $\triangle XYZ$, with $m\angle X = 51$, $m\angle Y = 59$, and $m\angle Z = 70$