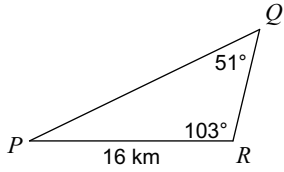


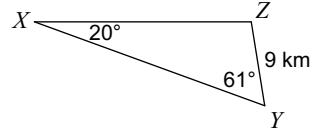
Breaking the Law...

For #'s 1-6, use the Law of Sine to find the indicated missing measurement. Round your answers to the nearest tenth. Question #6 is a challenge problem. Show all work!

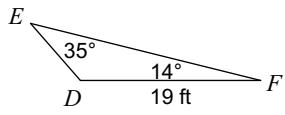
1) Find PQ



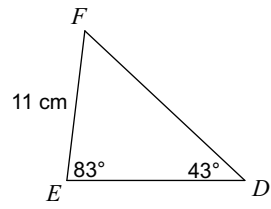
2) Find XZ



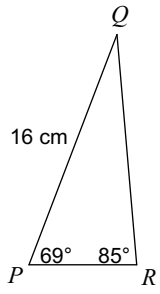
3) Find DE



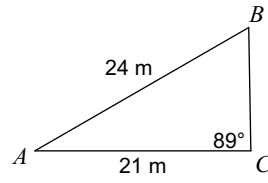
4) Find DF



5) Find QR

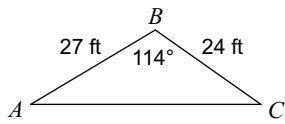


6) Find $m\angle B$

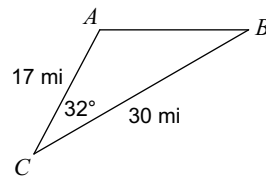


For #'s 7-12, use the Law of Cosine to find the indicated missing measurement. Round your answers to the nearest tenth. Question #12 is a challenge problem. Show all work!

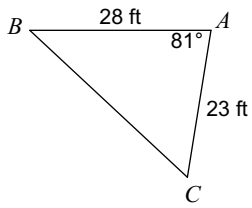
7) Find AC



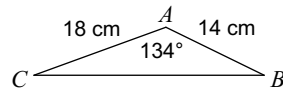
8) Find AB



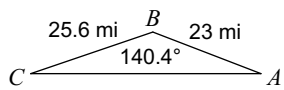
9) Find BC



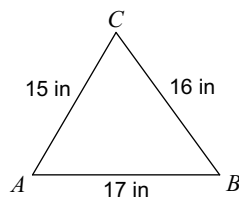
10) Find BC



11) Find AC

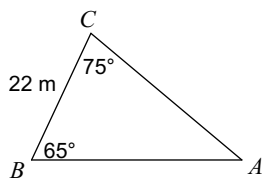


12) Find $m\angle C$

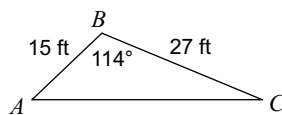


For #'s 13-15, determine which Law to use to find the indicated missing measurement. If no side or angle is requested, solve for all missing parts. Round your answers to the nearest tenth. Show all work!

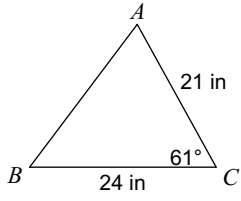
13) Find AB



14) Find AC

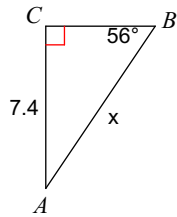


15)

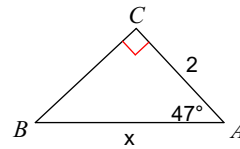


Find the measure of each side indicated. Round to the nearest tenth.

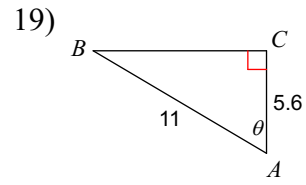
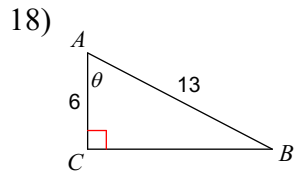
16)



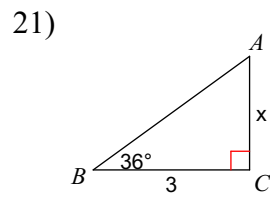
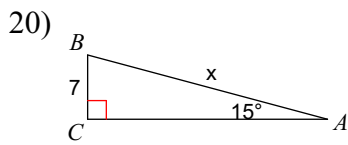
17)



Find the measure of each angle indicated. Round to the nearest tenth.



Find the measure of each side indicated. Round to the nearest tenth.



Answers to Breaking the Law...

- 1) 20.1 km
- 5) 15 cm
- 9) 33.3 ft
- 13) 33.1 m
- 16) 8.9
- 20) 27

- 2) 23 km
- 6) 61°
- 10) 29.5 cm
- 14) 35.8 ft
- 17) 2.9
- 21) 2.2

- 3) 8 ft
- 7) 42.8 ft
- 11) 45.7 mi
- 15) $m\angle A = 66^\circ, m\angle B = 53^\circ, c = 23$ in
- 18) 62.5°

- 4) 16 cm
- 8) 18 mi
- 12) 66.4°
- 19) 59.4°