

Name: \_\_\_\_\_ Quiz Score: \_\_\_\_\_ /20

### Quiz 9

Use the Law of Sines or the Law of Cosines **to find angle  $C$  (only)**. If two solutions exist, find both. If no solution exists, explain why not. Assume triangles are labeled in the standard way (angle  $A$  opposite side  $a$ , etc.). Sketch and label a triangle for each solution, roughly to scale. *Round your answers to the nearest degree. Justify your answers.*

1.  $a = 8, b = 10, c = 3$ .

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2.  $A = 60^\circ, a = 18, c = 20$ .