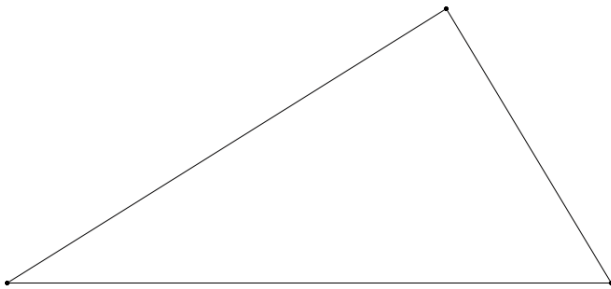


1. Which of the following triangles exists?
  - a. Triangle ABC with  $a = 13$ ,  $b = 12$ , and angle  $A = 102$
  - b. Triangle DEF with  $d = 14$ ,  $e = 15$ , and angle  $E = 105$
  - c. Triangle RST with  $r = 15$ ,  $s = 14$ , and angle  $R = 110$
  - d. Triangle PMN with  $p = 14$ ,  $m = 40$ , and angle  $P = 25$

Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

Label the given triangles with given dimensions

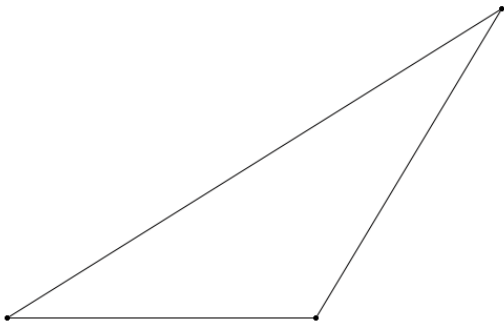
First triangle



$$a = 20 \quad b = 15 \quad A = 58^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary

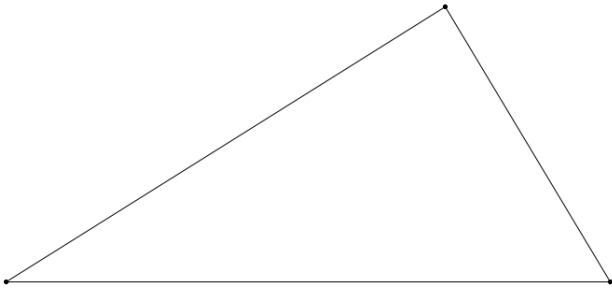


$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$

Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

Label the given triangles with given dimensions

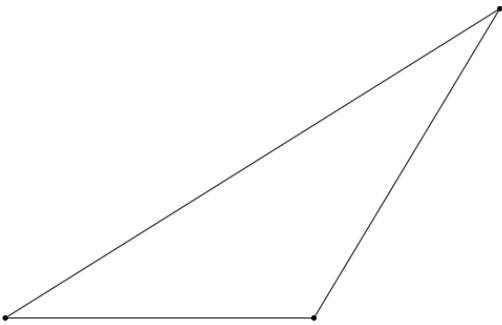
First triangle



$$a = 16 \quad b = 18 \quad A = 44^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary



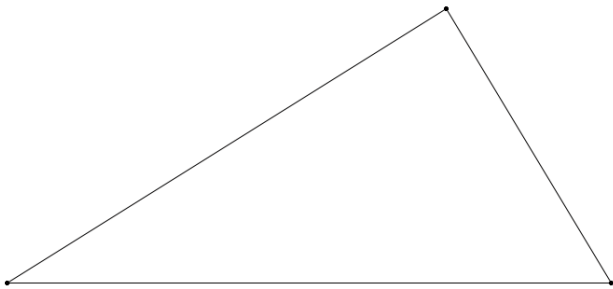
$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$

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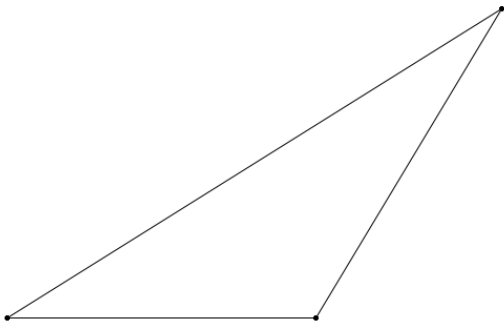
First triangle



$$a = 25 \quad b = 15 \quad A = 64^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary

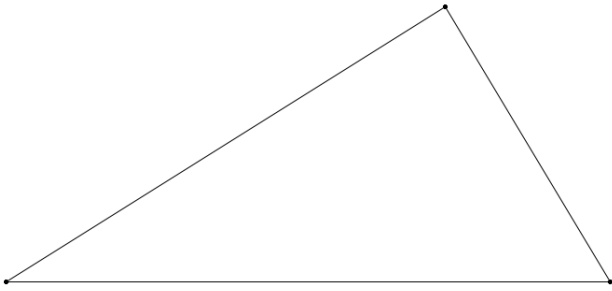


$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$

Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

Label the given triangles with given dimensions

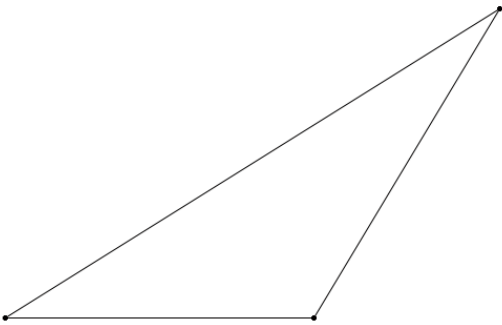
First triangle



$$a = 17 \quad b = 18 \quad A = 63^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary

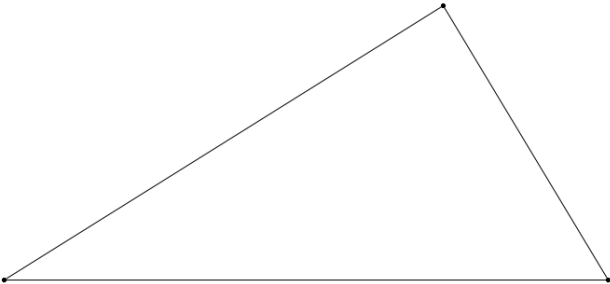
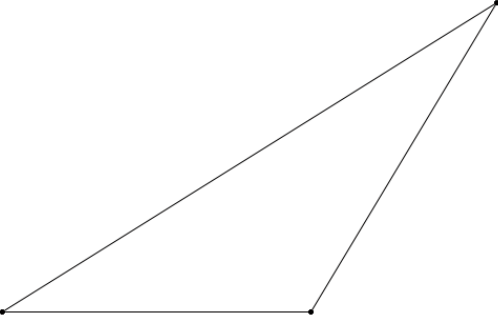


$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$

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Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

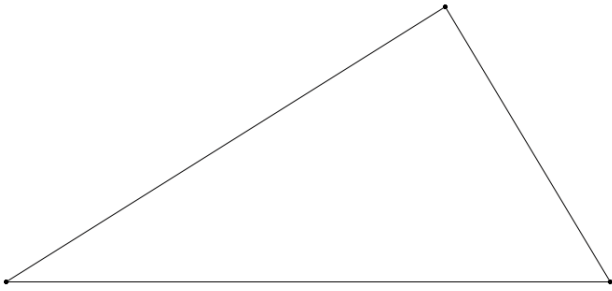
Label the given triangles with given dimensions

<p>First triangle</p> 	<p><math>a = 28</math> <math>b = 14</math> <math>A = 67^\circ</math></p> <p><math>B^\circ = \underline{\hspace{2cm}}</math> <math>c = \underline{\hspace{2cm}}</math> <math>C^\circ = \underline{\hspace{2cm}}</math></p>
<p>Second triangle if necessary</p> 	<p><math>B'^\circ = \underline{\hspace{2cm}}</math> <math>c' = \underline{\hspace{2cm}}</math> <math>C'^\circ = \underline{\hspace{2cm}}</math></p>

Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

Label the given triangles with given dimensions

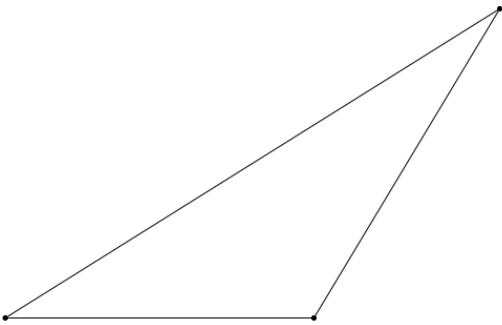
First triangle



$$a = 19 \quad b = 21 \quad A = 49^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary

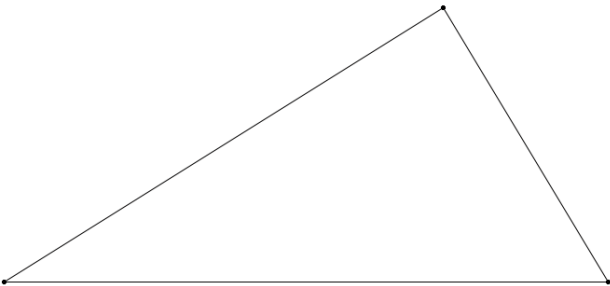
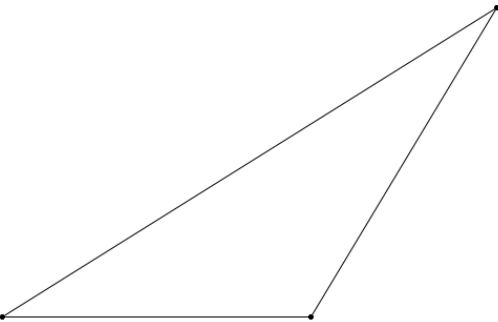


$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$

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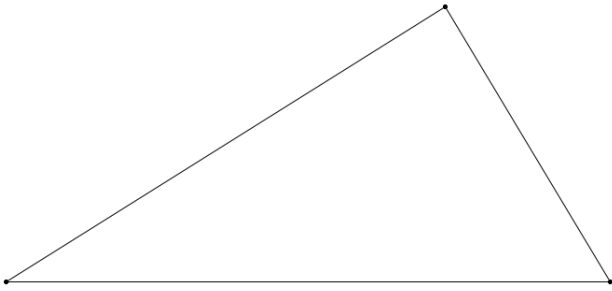
Label the given triangles with given dimensions

<p>First triangle</p> 	<p><math>a = 30</math> <math>b = 16</math> <math>A = 72^\circ</math></p> <p><math>B^\circ = \underline{\hspace{2cm}}</math> <math>c = \underline{\hspace{2cm}}</math> <math>C^\circ = \underline{\hspace{2cm}}</math></p>
<p>Second triangle if necessary</p> 	<p><math>B'^\circ = \underline{\hspace{2cm}}</math> <math>c' = \underline{\hspace{2cm}}</math> <math>C'^\circ = \underline{\hspace{2cm}}</math></p>

Solve each of the following triangles based on the given information, be sure to check for a second triangle if necessary

Label the given triangles with given dimensions

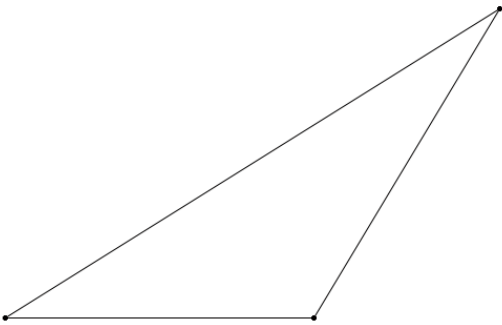
First triangle



$$a = 23 \quad b = 26 \quad A = 52^\circ$$

$$B^\circ = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}} \quad C^\circ = \underline{\hspace{2cm}}$$

Second triangle if necessary



$$B'^\circ = \underline{\hspace{2cm}} \quad c' = \underline{\hspace{2cm}} \quad C'^\circ = \underline{\hspace{2cm}}$$