





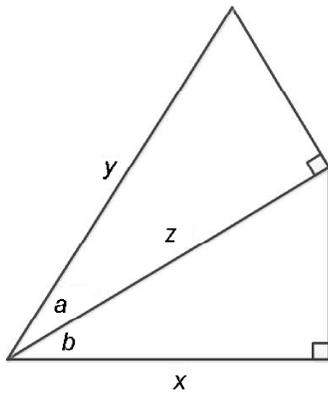


4. A mountain is 1300 m tall and you are standing 1774 m from the base. At what angle does the mountain rise?

**Problem**

1. What are the lengths of  $x$  and  $y$  in the diagram below, given the following dimensions?

$a = 30^\circ$   
 $b = 25^\circ$   
 $z = 30 \text{ cm}$



2. Find  $x$  and  $y$ , given the following dimensions:

$t = 52^\circ$   
 $a = 30 \text{ cm}$   
 $b = 45 \text{ cm}$

