Name_____Solutions_____ Trigonometry, Quiz 29

Solve for all the missing pieces of the triangle below. (Not to scale)

$11^2 = 10^2 + 6^2 - 2 \cdot 10 \cdot 6 \cdot \cos(\theta)$
$\theta = 82.8192$

$10^2 = 11^2 + 6^2 - 2 \cdot 11 \cdot 6 \cdot \cos(\theta)$
$\theta = 61.417$

61.4^o

6

11

35.8^o

82.8^o

10