8.5/8.6 Finding Angles in △s

Feb 7

std. 19.0

ex. 1 a) If $\sin A \approx .8572$, find $\angle A$. ≈59.0 ← $\sin^{-1}$ ← find ∠s

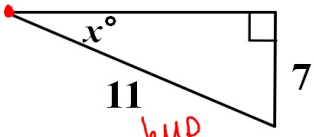
2nd sin⁻¹ .8572 ent

2nd INV sin .8572 2ND sin⁻¹ =

73.9°

b) If $\tan B \approx 3.4751$, find $\angle B$. ≈

ex. 2



opp

hyp

$\sin x^\circ = \frac{7}{11}$

$x \approx 39.5^\circ$

$x^\circ = \sin^{-1}(7 \div 11)$

or 7 ÷ 11 2ND SIN ANS

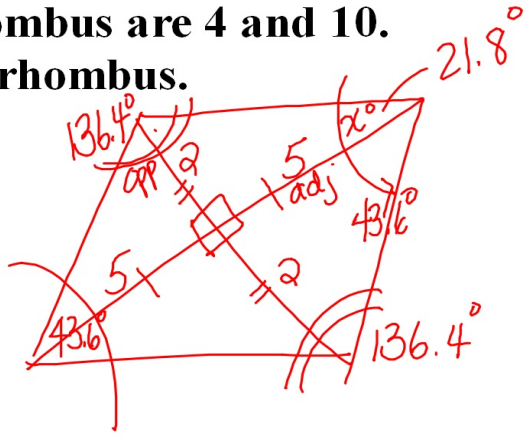
first

7 ÷ 11 sin⁻¹

ex. 3 **The diagonals of a rhombus are 4 and 10. Find the angles of the rhombus.**

$\tan x^\circ = \frac{2}{5}$

$x^\circ = \tan^{-1}(2 \div 5)$



ex. 4