CHECK ANSWERS: ch.4 #78-81,84,86,90,94-96

#86d → draw as two separate triangles
#90 → sketch diagram, then solve
#94 → sketch diagram, then solve

-2 $\frac{13}{4}$ 4 4.67 6.84 8.35

21.04 36.03 36.15 40.42 45

60 67.4 68.96 80.83 874.57

$\sin A = \frac{12}{13}$ *or* $\cos A = \frac{5}{13}$ *or* $\tan A = \frac{12}{5}$

Cosine is adjacent÷hypotenuse so a smaller number divided by a larger number must be less than 1.

No, the angle is too large

Yes, $\cos^{-1}(8/16) = 60°$

He needs to know the angle between the ramp and the ground

sin67° is the same as cos23° so both ≈ 0.921 since 67 and 23 are complementary angles that = 90°

$\cos 23° = \frac{18}{x}$ or $0.921 = \frac{18}{x}$