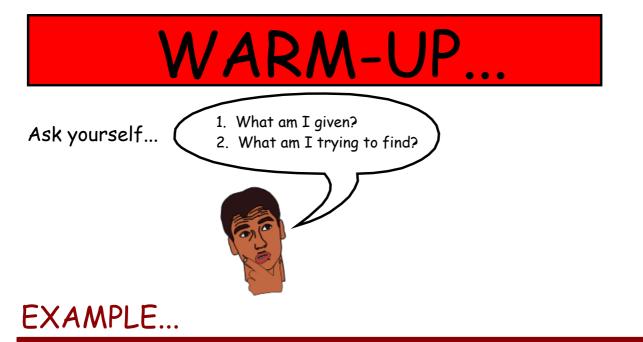
SINI



On a space flight, astronant Neil Armstrong reports that the angle formed by <u>his lines of sight to the</u> earth and to the moon was 58°. At the same time, the observer on the earth reports that the angle formed by her lines of sight to the spaceship and to the moon is 74°. If the moon is 382 000 km from the why where earth, how far is the spaceship from the tracking station?

382000KM

3820005178

38<u>2000</u>*sin(48)/s

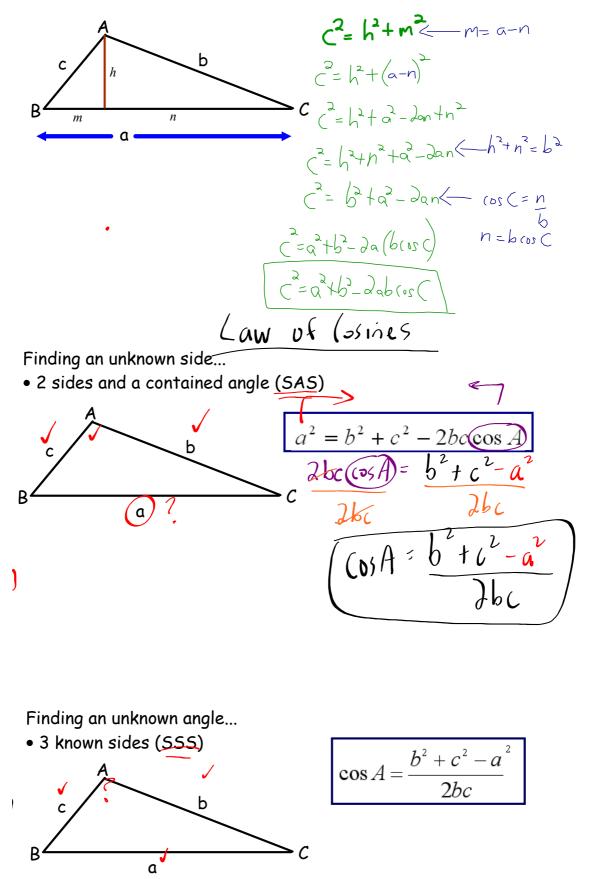
334746.7Km

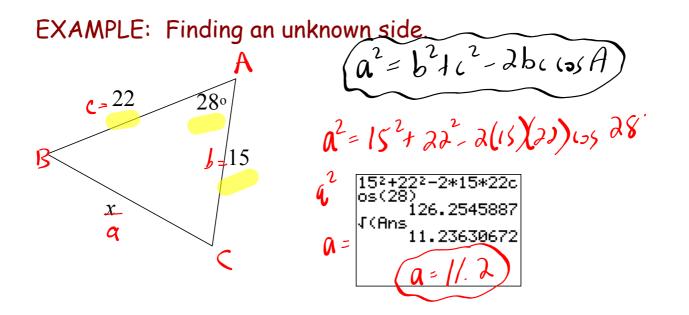
334746.7256

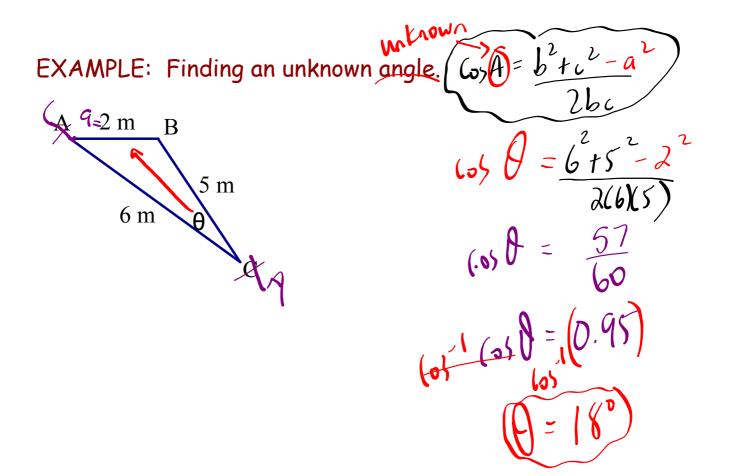
¥8.

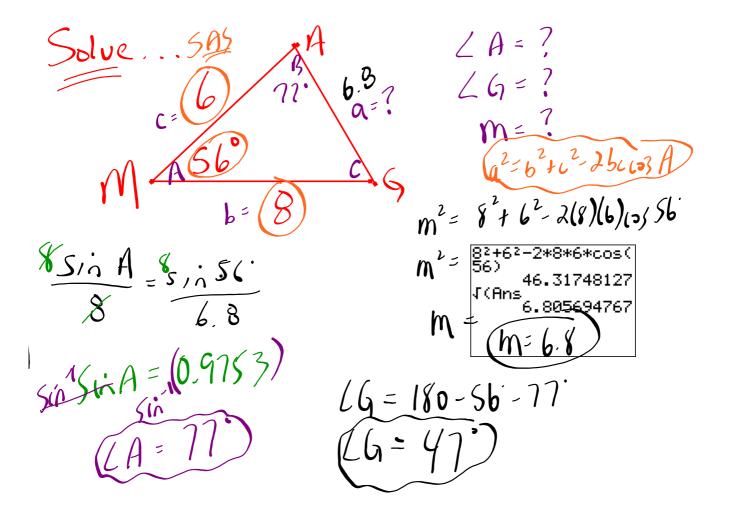
Law of Cosines

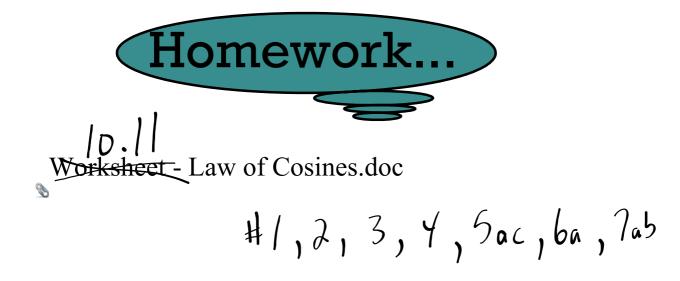
Derivation of the law of cosines...











Worksheet - Law of Cosines.doc