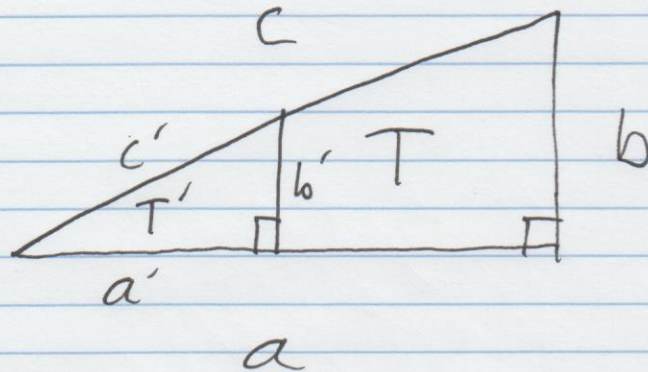Projection

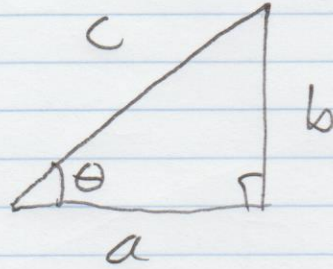Similar Triangles   (problems 2 and 3)

The ratio of any two sides of
T equals the ratio of the corresponding
two sides of T'.

For example : $\dfrac{b}{a} = \dfrac{b'}{a'}$

If you know any three, you can
solve for the fourth.

Tangent   (Problem 4)

$$\tan \theta = \frac{b}{a}$$

$$\therefore \theta = \tan^{-1}\left(\frac{b}{a}\right)$$