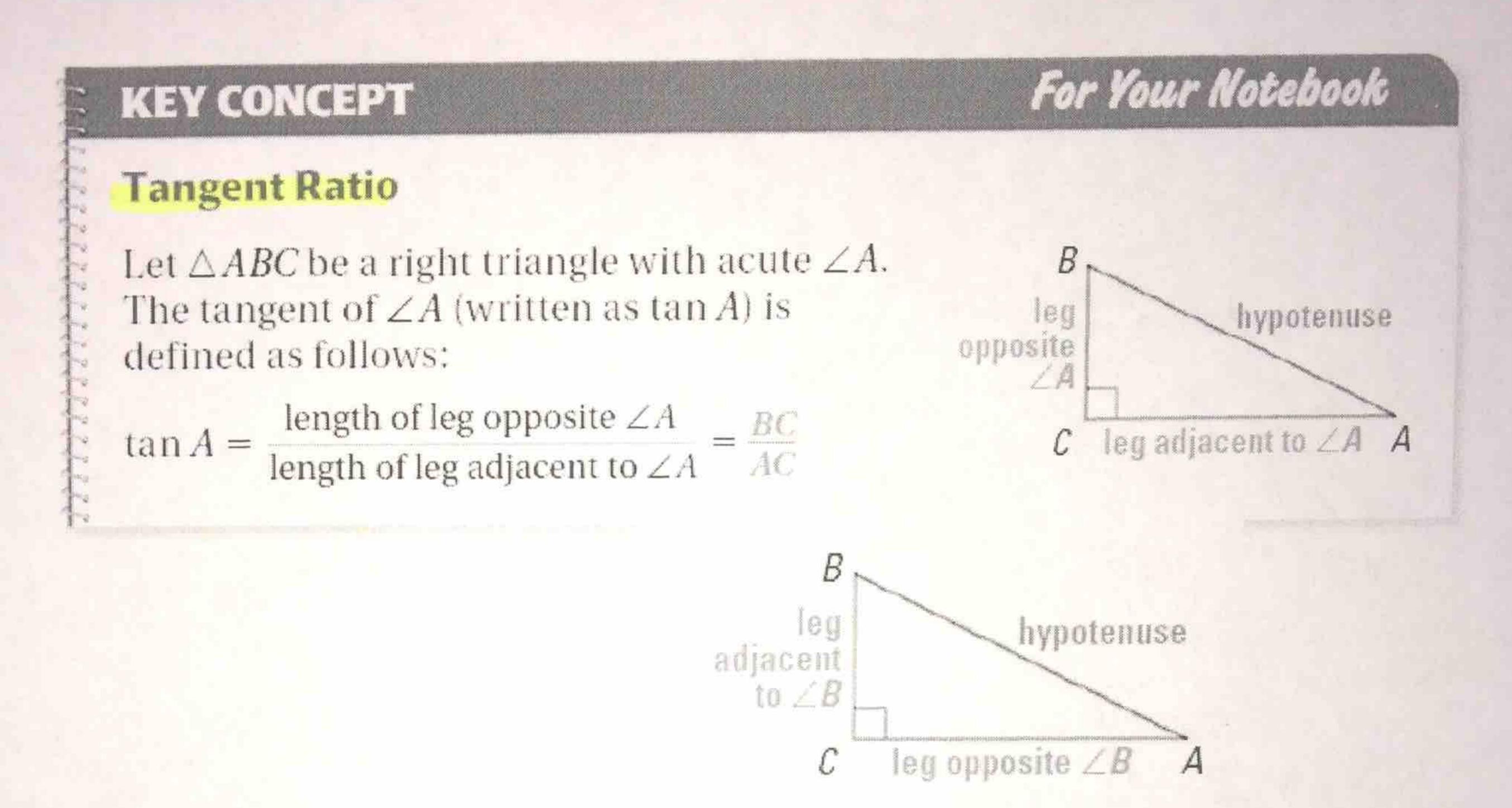
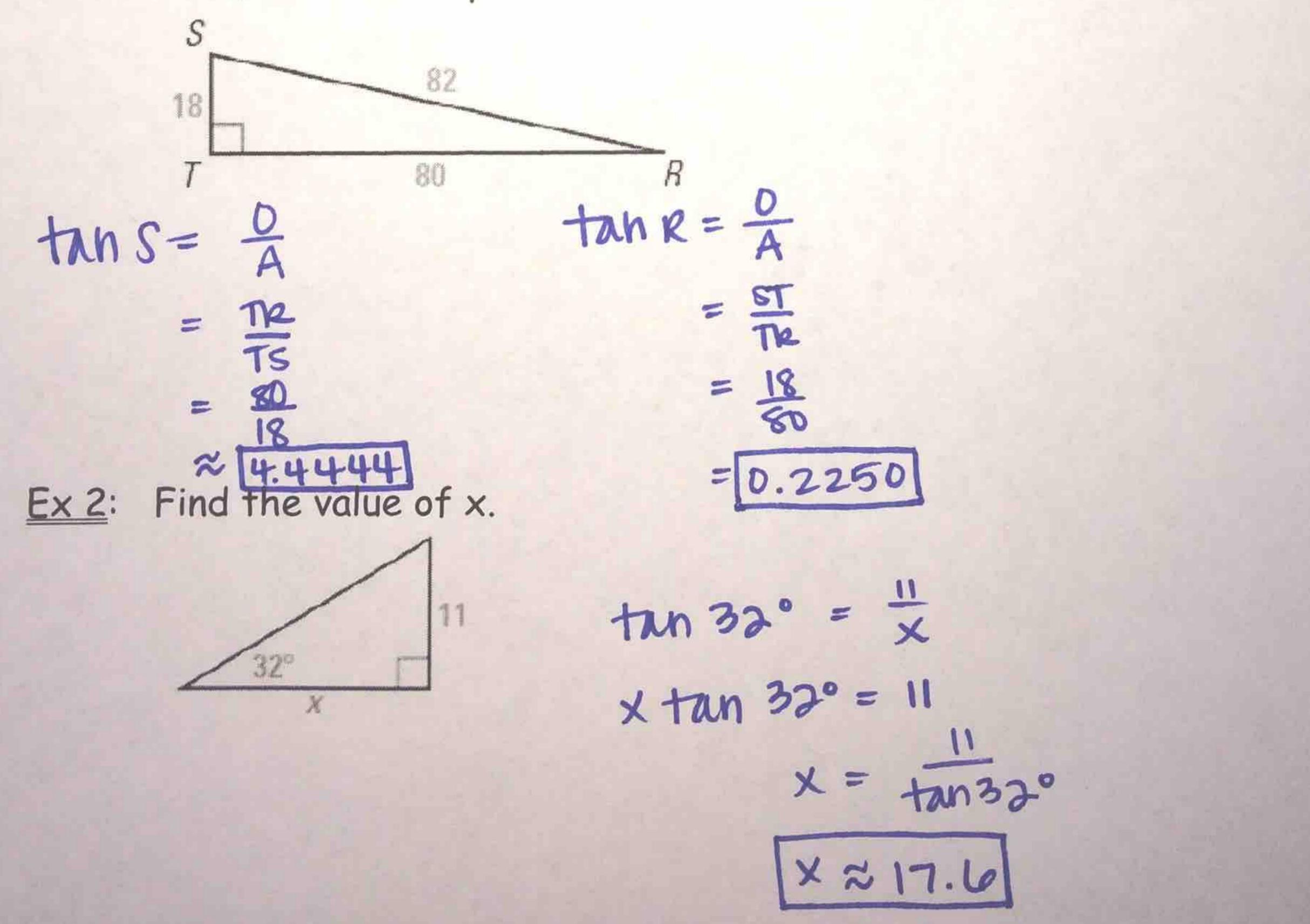
## 7.5 Apply the Tangent Ratio

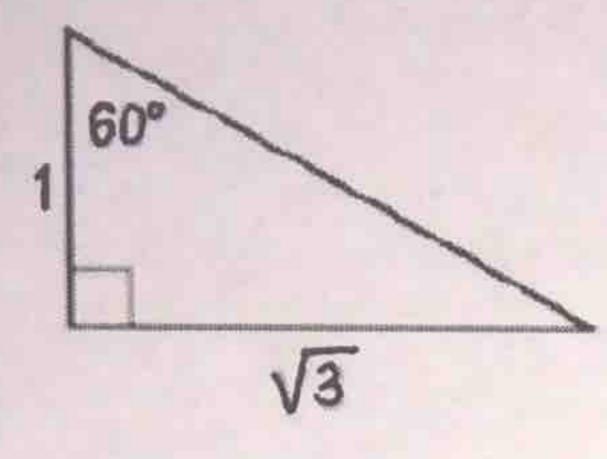
trigonometric ratio - ratio of the lengths of 2 sides in a right triangle



Ex 1: Find tan S and tan R. Write each answer as a fraction and as a decimal rounded to four decimal places.



Ex 3: Use a special right triangle to find the tangent of a 60° angle. (create your own)



Since all 30°-60°-90° triangles are similar, you can choose I as the length of the shorter leg.

Ionger leg = shorter leg • 
$$\sqrt{3}$$

$$X = 1 \cdot \sqrt{3}$$

$$X = \sqrt{3}$$

$$\tan 60^\circ = \frac{0}{A}$$

$$\tan 60^\circ = \sqrt{3}$$

$$\tan 60^\circ = \sqrt{3}$$

- \* Rounding to four decimal places for a whole number:
- \* Do not round in the middle of a problem! Round only final answer!