Warm-up 1/26/17

If the length of the hypotenuse of a right triangle is 29, and one leg is 21, find the length of the other leg.

$$21^2 + x^2 = 29^2$$

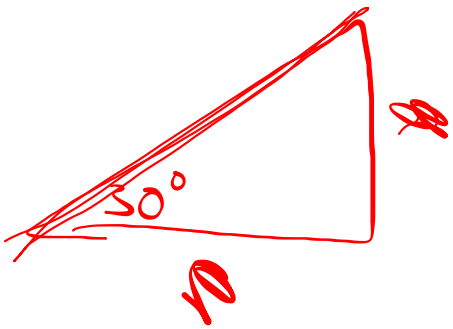
$$441 + x^2 = 841$$

$$x^2 = 400$$

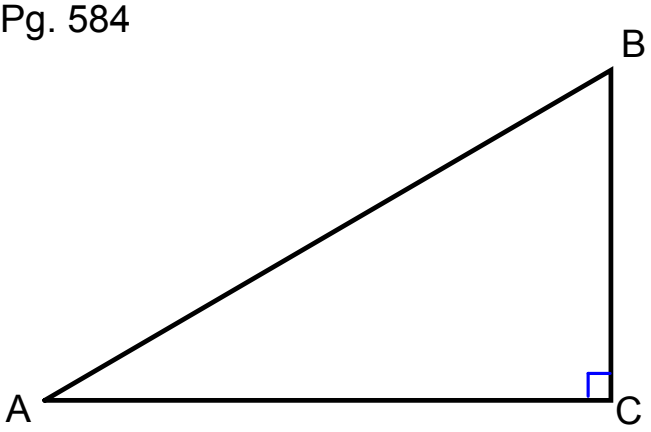
$$x = 20$$

Pg. 580-583

$$\frac{9}{9\sqrt{3}} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$



Pg. 584



$$\tan A = \frac{opp.}{adj.} = \frac{BC}{AC}$$

P. 587

$\tan 4 = \frac{20}{x}$

$x(\tan 4) = 20$

$x = \frac{20}{\tan 4} \approx 286$

$\tan 4 = \frac{x}{100}$

$100(\tan 4) = x$

$7 \approx x$

Pg. 589-591

4.

1. $\tan A = \frac{15}{10}$

$A = \tan^{-1}\left(\frac{15}{10}\right) \approx 56.3°$