

Let's Review:

- Simplifying Radicals
- Pythagoras Theorem
- Basic Trigonometric Properties

Radical Review

Simplify

$$\sqrt{12}$$
 $\sqrt{3.3.3}$
 $\sqrt{3.3.3}$
 $\sqrt{5\sqrt{8}}$
 $\sqrt{8} + 4\sqrt{18}$
 $\sqrt{5\sqrt{3.3.3}}$
 $\sqrt{5\sqrt{8}} + 4\sqrt{18}$
 $\sqrt{5\sqrt{3.3.3}}$
 $\sqrt{5\sqrt{3}}$
 $\sqrt{5\sqrt{8}}$

Rationalizing the Denominator

Get rid of rodical

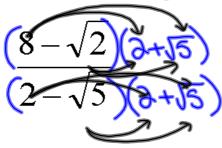
bottom

$$\frac{5}{\sqrt{2}} \cdot \sqrt{5}$$

$$\frac{8\sqrt{2}}{6\sqrt{8}}$$

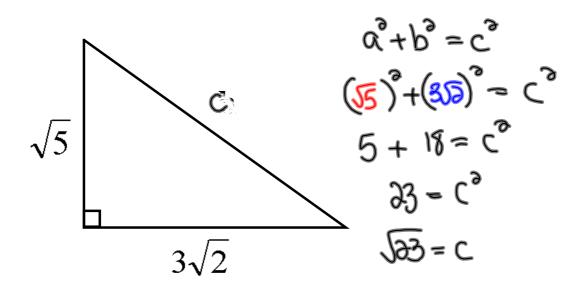
Think Conjugates! (a+b) -> (a-b)

$$(a+b) \rightarrow (a-b)$$

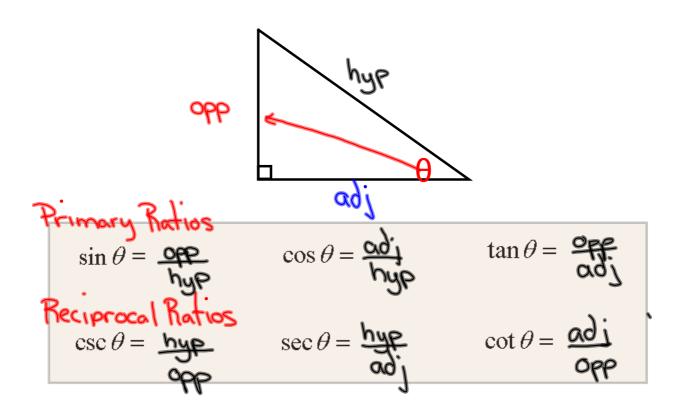


Think Pythagorean Theorem!

Determine the length of the idicated side!



Trigonometric Ratios



cosecant

serant

cotangent

Homework

Trig&3SpaceCourseOutline.doc