

Let's Review:

- Simplifying Radicals
- Pythagoras Theorem
- Basic Trigonometric Properties

Radical Review

Simplify

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

Rationalizing the Denominator

Get rid of rodical

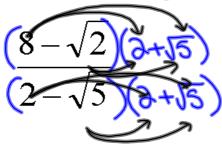
bottom

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

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

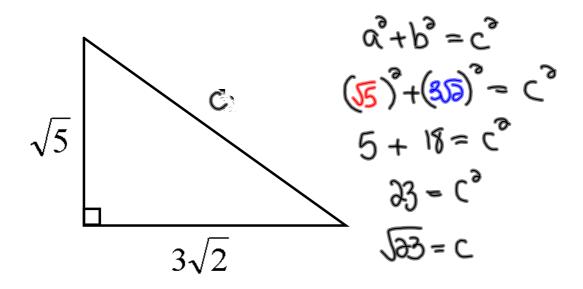
Think Conjugates! (a+b) -> (a-b)

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

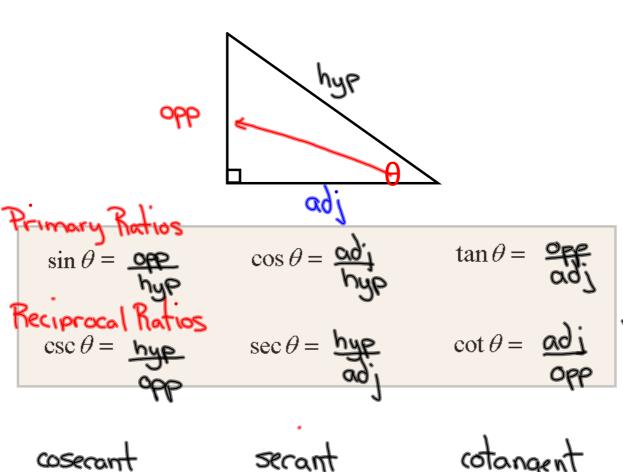


Think Pythagorean Theorem!

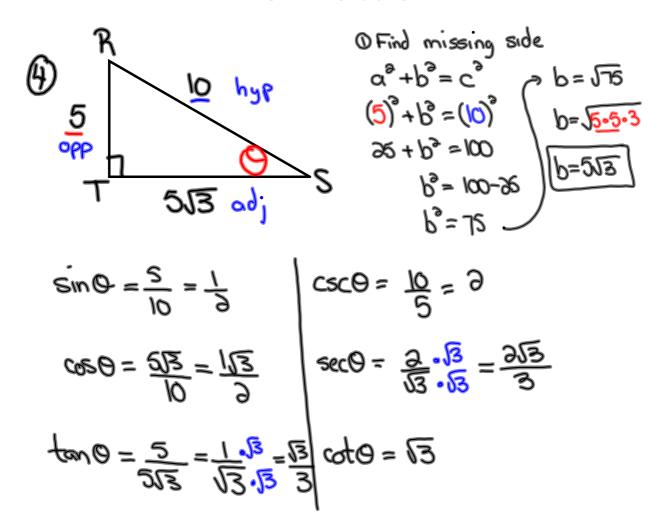
Determine the length of the idicated side!



Trigonometric Ratios



Homework



3
$$\log_{6}(x-1) + \log_{6}(x+4) = 3$$
 $\log_{6}(x^{2}-1) + \log_{6}(x+4) = 3$
 $\log_{6}(x^{2}+3x-4) = 3$
 $\log_{6}(x^{2$

$$0 - 3y + 3 = 8(3)^{3x+6} + 6$$

$$-3y = 8(3)^{3x+6} + 6$$

$$-3 - 3 - 3$$

$$y = -4(3)^{3x+6} - 3$$

$$y = -4(3)^{3x+6} - 3$$

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