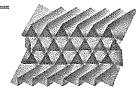
Similarity & Right Triangle Trigonometry 6.9

Ready, Set, Go!



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Ready Topic: Solving equations and proportions.

Just review your algebra skills! Don't worry about the justifications Solve each equation below and justify your work.

1.	$\frac{8x - 10 = x + 11}{2}$	Justification	2.	3x + 9 = 44 - 2x	Justification
2	3		A	2 r	
3.	$\frac{3}{5}x = 9$	Justification	4.	$\frac{2}{3} = \frac{x}{21}$	Justification
					•

Set

Topic: Trigonometric Ratios and Connections between them.

Based on the given trigonometric ratio, sketch a triangle and find a possible value for the missing side as well as the other missing trig ratios. Angles A and B are the two non-right angles in a right triangle.

5. a. $tan (A) = \frac{3}{4}$	d. tan (B)=	6. a. tan (A)=	d. tan (B)=
b. $sin (A) =$	e. sin (B)=	b. sin (A)=	e. sin (B)= ⁸ / ₁₇
c. $cos (A) =$	f. cos (B)=	c. cos (A)=	f. cos (B)=
g. Sketch of Triangle:		g. Sketch of Triangle:	

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7. a. $\tan (A) =$	d. tan (B)=	8. a. tan (A)=	d. tan (B)=
b. $\sin (A) =$	e. sin (B)=	b. sin (A)=	e. sin (B)= <u>1</u>
c. $\cos (A) = \frac{12}{13}$	f. cos (B)=	c. cos (A)=	f. cos (B)=
g. Sketch of Triangle	:	g. Sketch of Triangle:	

#9-11 Honors Only

Given a right triangle with angles A and B as the non-right angles. Determine if the statements below are true or false. Justify your reasoning and show your argument.

9. $\cos(A) = \frac{1}{\sin A}$

10. $\tan(B) = \tan(90^\circ - A)$

11. $\tan(A) \cdot \cos(A) = \sin(A)$

Go Topic: Slope as a ratio

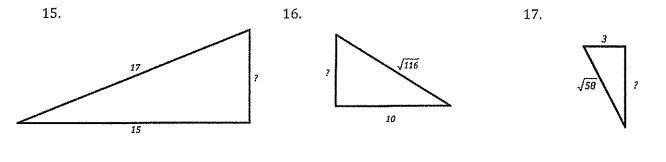
12.

On each grid draw three slope defining triangles of different sizes and label the rise and run then write the slope of the line.

2

14.

Find the missing length in each right triangle. Then determine the slope of the hypotenuse.



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