# Ready，Set，Go！ 

## Ready

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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． $8 x-10=x+11$

2.

| $3 x+9=44-2 x$ | Justification |
| :--- | :--- |
|  |  |
|  |  |

3. 


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． $\tan (\mathrm{A})=\frac{3}{4}$
d． $\tan (B)=$
b． $\sin (A)=$
c． $\cos (A)=$
e． $\sin (B)=$
f． $\cos (B)=$
g．Sketch of Triangle：

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

## Similarity \& Right Triangle Trigonometry 6.9

7. a. $\tan (A)=$
d. $\tan (B)=$
b. $\sin (A)=$
e. $\sin (B)=$
c. $\cos (A)=\frac{12}{13}$
f. $\cos (B)=$
g. Sketch of Triangle:
8. a. $\tan (A)=$
d. $\tan (B)=$
b. $\sin (A)=$
e. $\sin (B)=\frac{1}{\sqrt{2}}$
c. $\cos (A)=$
f. $\cos (B)=$
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. $\tan (B)=\tan \left(90^{\circ}-A\right)$
11. $\tan (A) \cdot \cos (A)=\sin (A)$

Go
Topic: Slope as a ratio


Find the missing length in each right triangle. Then determine the slope of the hypotenuse.
15.

16.

17.


