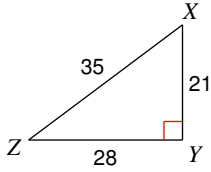


Trigonometric Ratios

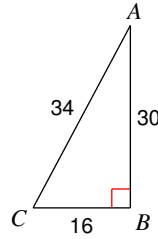
Date _____ Period _____

Find the value of each trigonometric ratio.

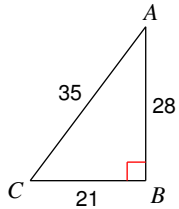
1) $\tan Z$



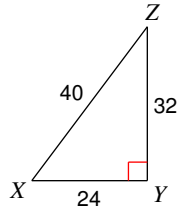
2) $\cos C$



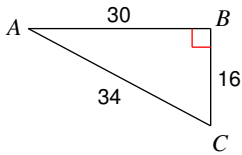
3) $\sin C$



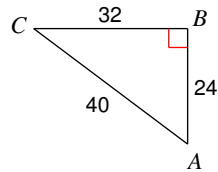
4) $\tan X$



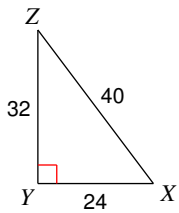
5) $\cos A$



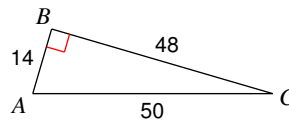
6) $\sin A$



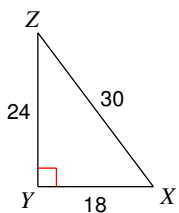
7) $\sin Z$



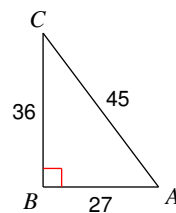
8) $\sin C$



9) $\cos Z$

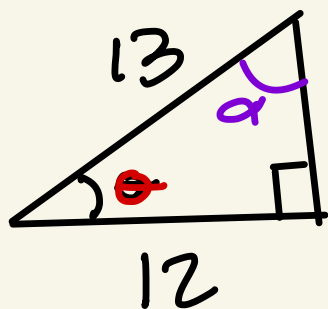


10) $\tan C$



Ch. 30 - Inverse/Reciprocal SOH - CAH - TOA Trig. IDENTITIES

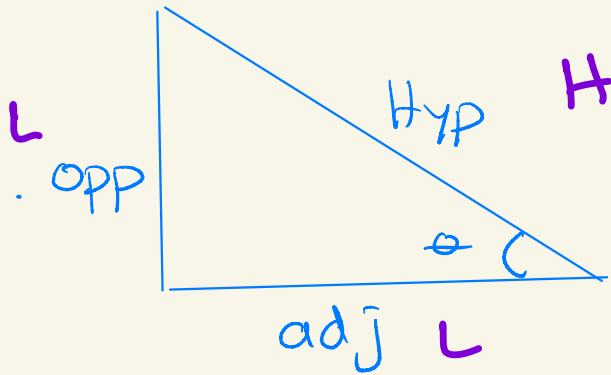
Trig. FUNCTION	Inv. FUNCTION
$\text{Sin } \theta = \frac{\text{opp}}{\text{hyp}}$	$\text{csc } \theta = \text{---}$
$\text{Cos } \theta = \frac{\text{adj}}{\text{hyp}}$ cosine	$\text{sec } \theta = \text{---}$
$\text{Tan } \theta = \frac{\text{opp}}{\text{adj}}$	$\text{cot } \theta = \text{---}$



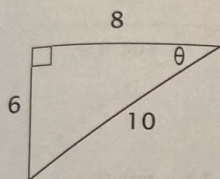
$$\begin{array}{ll} \text{Sin } \theta = \text{---} & \text{csc } \theta = \text{---} \\ \text{Cos } \theta = \text{---} & \text{sec } \theta = \text{---} \\ \text{tan } \theta = \text{---} & \text{cot } \theta = \text{---} \end{array}$$

$$\begin{array}{ll} \text{Sin } \alpha = \text{---} & \text{csc } \alpha = \text{---} \\ \text{Cos } \alpha = \text{---} & \text{sec } \alpha = \text{---} \\ \text{tan } \alpha = \text{---} & \text{cot } \alpha = \text{---} \end{array}$$

prove $\sin^2\theta + \cos^2\theta = 1$



Find all six trigonometric ratios for θ and write in fraction form. Always reduce if possible.



1. $\sin \theta =$

4. $\csc \theta =$

2. $\cos \theta =$

5. $\sec \theta =$

3. $\tan \theta =$

6. $\cot \theta =$

7. $\sin \theta =$

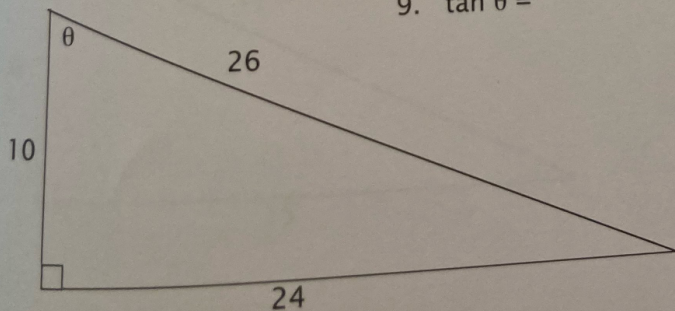
10. $\csc \theta =$

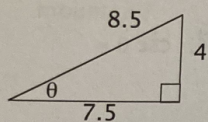
8. $\cos \theta =$

11. $\sec \theta =$

9. $\tan \theta =$

12. $\cot \theta =$





13. $\sin \theta =$

16. $\csc \theta =$

14. $\cos \theta =$

17. $\sec \theta =$

15. $\tan \theta =$

18. $\cot \theta =$

Fill in the blanks.

19. $\sin^2 \theta + \cos^2 \theta =$ _____ .

20. The formula above is the _____
expressed with trig ratios.

Unit Test III - FINAL

- ① FORMULA / DEFINITION SHEET
 - ② TAKE 3 CORRECT PRACTISE TEST
 - ③ Figure out missed Problems
 - ④ Mark your figures
-

Ch. 20 - 30

20/21 - Special Triangles 30-60-90
45-45-90

22 - Theorems / Postulates

23 - Corresponding Parts
of Triangle

24 - 26 - Proofs

27 - AA Proofs

28 - Transformations

29/30 - Trig. Functions