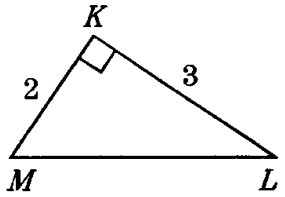
Pre AP PreCal Name:_____

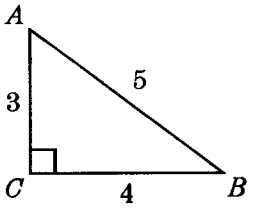
Worksheet: Right Triangle Trigonometry

For problems 1-4, use the diagram of ΔKLM and find.



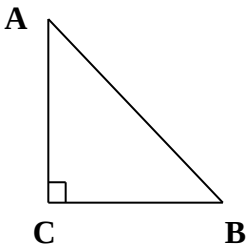
1. Cos L
2. Sec L
3. Csc M
4. Cot M

For problems 5-8, use the diagram of ΔABC to find the letter of the missing angle that Θ measures.



5. Sin Θ = 3/5
6. Csc Θ = 5/4
7. Cot Θ = 3/4
8. Sec Θ = 3/5

For problems 9-12, use the diagram of ΔABC to find each side length:



9. If Tan B = 7/5, find AB
10. If Sin B = 3/4, find BC
11. If Csc B = 7/3, find BC
12. If Sec A = 6/5, find BC

Answer the following questions.

13. If Cos Θ = 4/5, what is Tan Θ?
14. If Tan Θ = 3, then what is Sec Θ?
15. If Csc Θ = 7/3, what is Cot Θ?
16. If Cot Θ = 1/2, what is Sin Θ?

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Worksheet: Right Triangle Trigonometry

Use a calculator in degree mode to find the indicated function value correct to three decimal places:

17. $\sin 32^o$ 18. $\cos 184^o$ 19. $\cot 75^o$ 20. $\sec 253.2^o$

21. $\csc 8.7^o$ 22. $\tan 256^o$ 23. $\sec 172.1^o$ 24. $\cot 325^o$

Find the degree measure of the acute angle θ correct to three decimal places:

25. $\theta = \cos^{-1} .475$ 26. $\sin\theta = .873$ 27. $\theta = \cot^{-1} 1.756$

28. $\theta = \operatorname{arcsec}(2.217)$ 29. $\csc\theta = 3.623$ 30. $\theta = \sec^{-1} 1.689$

31. $\cot\theta = .769$ 32. $\theta = \arctan(1.153)$ 33. $\theta = \csc^{-1} 2.441$