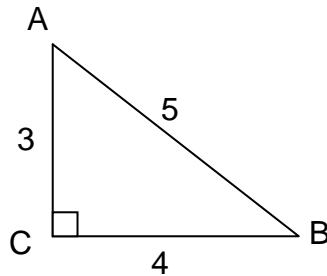


Precalculus  
Triangle Trigonometry WS #1

Name \_\_\_\_\_ Period \_\_\_\_\_

Find the trigonometric ratio specified. Show ALL your work for full credit. Round to four decimal places.



1. Find  $\sin \angle A =$  \_\_\_\_\_

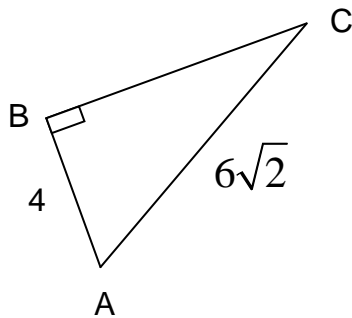
4. Find  $\sin \angle B =$  \_\_\_\_\_

2. Find  $\cos \angle A =$  \_\_\_\_\_

5. Find  $\cos \angle B =$  \_\_\_\_\_

3. Find  $\tan \angle A =$  \_\_\_\_\_

6. Find  $\tan \angle B =$  \_\_\_\_\_



7. Find  $BC =$  \_\_\_\_\_

8. Find  $\sin \angle A =$  \_\_\_\_\_

11. Find  $\sin \angle B =$  \_\_\_\_\_

9. Find  $\cos \angle A =$  \_\_\_\_\_

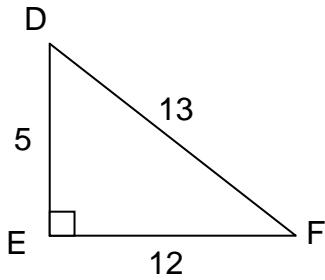
12. Find  $\cos \angle B =$  \_\_\_\_\_

10. Find  $\tan \angle A =$  \_\_\_\_\_

13. Find  $\tan \angle B =$  \_\_\_\_\_

Precalculus  
Triangle Trigonometry WS #1

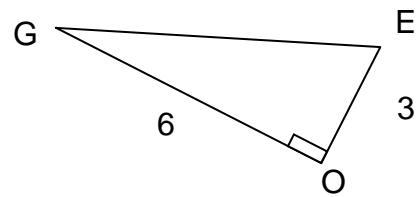
Find the trigonometric ratio specified. Show ALL your work for full credit. Round to four decimal places.



14. Find  $\sin \angle F =$  \_\_\_\_\_

15. Find  $\cos \angle D =$  \_\_\_\_\_

16. Find  $\tan \angle D =$  \_\_\_\_\_



17. Find  $GE =$  \_\_\_\_\_

18. Find  $\tan \angle E =$  \_\_\_\_\_

19. Find  $\tan \angle G =$  \_\_\_\_\_

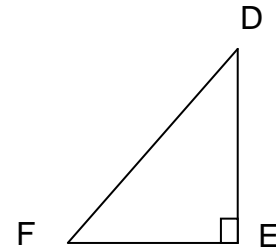
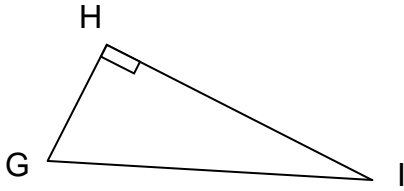
20. Find  $\cos \angle E =$  \_\_\_\_\_

21. Find  $\sin \angle G =$  \_\_\_\_\_

22. Find  $\tan \angle G =$  \_\_\_\_\_

Precalculus  
Triangle Trigonometry WS #1

Find each of the following exactly. Leave answers in radical and fraction form (no decimals).



22. If  $\sin \angle G = \frac{12}{13}$ , find  $GI$ .

27. If  $\sin \angle F = \frac{5}{6}$ , find  $FE$ .

23. If  $\sin \angle G = \frac{12}{13}$ , find  $GH$ .

28. If  $\sin \angle F = \frac{1}{3}$ , find  $DE$ .

24. If  $\sin \angle G = \frac{6}{7}$ , find  $GI$ .

29. If  $\cos \angle F = \frac{1}{6}$ , find  $DE$ .

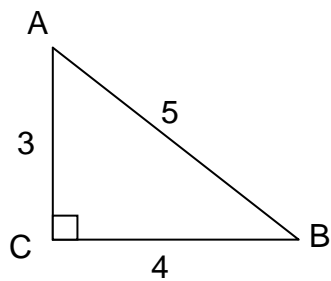
25. If  $\cos \angle I = \frac{3}{5}$ , find  $GI$ .

30. If  $\cos \angle F = \frac{7}{12}$ , find  $FE$ .

26. If  $\sin \angle G = \frac{12}{13}$ , find  $GI$ .

Precalculus  
Triangle Trigonometry WS #2

Find the angle that completes the trigonometry ratio equation.



31.  $\sin \sphericalangle \text{ --- } = \frac{4}{5}$

34.  $\sin \sphericalangle \text{ --- } = \frac{3}{5}$

32.  $\cos \sphericalangle \text{ --- } = \frac{3}{5}$

35.  $\cos \sphericalangle \text{ --- } = \frac{4}{5}$

33.  $\tan \sphericalangle \text{ --- } = \frac{4}{3}$

36.  $\tan \sphericalangle \text{ --- } = \frac{3}{4}$