Math 2 Trigonometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr \_\_\_\_\_\_

13.1 Into to Trig Ratios

For exercises 1-6, refer to *∆ABC*.

Find each of the following in fraction form.

12

5

1. Sin A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Sin B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Cos A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Cos B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Tan A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Tan B ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C

A

B

13

For exercises, 1-6, refer to *∆DEF*.

Find each of the following in fraction form.

6

7. Tan D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Cos E \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Sin D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Tan E \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Cos D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Sin E ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E

F

D

9

Use a calculator for exercises 13-21. Round your answers to 3 decimal places.

13. sin 22° \_\_\_\_\_\_ 14. cos 33° \_\_\_\_\_\_ 15. cos 54° \_\_\_\_\_\_

16. cos 78° \_\_\_\_\_\_ 17. sin 18° \_\_\_\_\_\_ 18. sin 82° \_\_\_\_\_\_

19. tan 12° \_\_\_\_\_\_ 20. tan 2° \_\_\_\_\_\_ 21. tan 76° \_\_\_\_\_\_

For exercises 22-27, refer to *∆ABC*.

Find each of the following in fraction form.

1.8

3.5

22. Sin A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

23. Sin B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24. Cos A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

25. Cos B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

26. Tan A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27. Tan B ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B

C

A

3

For exercises 28-33, refer to *∆DEF*.

Find each of the following in fraction form.

Round your answers to the nearest three decimals.

4

1.8

28. Tan D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

29. Cos E \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

30. Sin D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

31. Tan E \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

32. Cos D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

33. Sin E ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F

E

D

4.39

Use a calculator for exercises 25-33. Round your answers to 3 decimal places.

25. \_\_\_\_\_\_ 26. \_\_\_\_\_\_ 27. \_\_\_\_\_\_

28. \_\_\_\_\_\_ 29. \_\_\_\_\_\_ 30. \_\_\_\_\_\_

31. \_\_\_\_\_\_ 32. \_\_\_\_\_\_ 33. \_\_\_\_\_\_