

# Class 10 Mathematics - Introduction to Trigonometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Advanced Worksheet 1

### Questions

1. Given  $\tan A = 5/12$ , find all the other trigonometric ratios.
2. Given  $\sin A = 8/17$ , find  $\cos A$ ,  $\tan A$ ,  $\sec A$ ,  $\operatorname{cosec} A$  and  $\cot A$ .
3. Given  $\cos A = 15/17$ , find  $\sin A$  and  $\tan A$ .
4. If  $\sec A = 5/4$ , find  $\tan A$ .
5. If  $\operatorname{cosec} A = 13/5$ , find  $\cos A$ .
6. If  $\cot A = 3/4$ , find  $\sec A$ .

### Answer Key

1.  $\sin A = 5/13$ ,  $\cos A = 12/13$ ,  $\sec A = 13/12$ ,  $\operatorname{cosec} A = 13/5$ ,  $\cot A = 12/5$
2.  $\cos A = 15/17$ ,  $\tan A = 8/15$ ,  $\sec A = 17/15$ ,  $\operatorname{cosec} A = 17/8$ ,  $\cot A = 15/8$
3.  $\sin A = 8/17$ ,  $\tan A = 8/15$
4.  $\tan A = 3/4$
5.  $\cos A = 12/13$
6.  $\sec A = 5/3$