

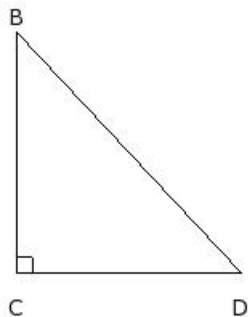
EduSahara™ Learning Center Assignment

Grade : Class IX, ICSE

Chapter : Trigonometrical Ratios

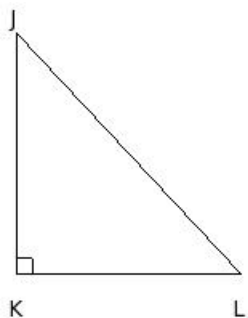
Name : Trigonometric Ratios of Complementary Angles

1. From the given figure, find $\sin(90^\circ - D)$



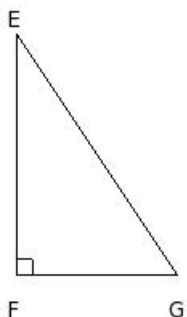
- (i) $\frac{BC}{BD}$ (ii) $\frac{CD}{BC}$ (iii) $\frac{CD}{BD}$ (iv) $\frac{BD}{BC}$ (v) $\frac{BC}{CD}$

2. From the given figure, find $\cos(90^\circ - L)$



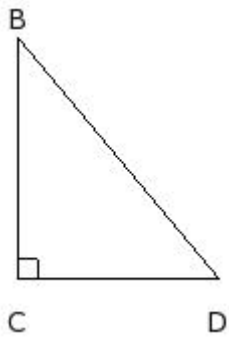
- (i) $\frac{KL}{JL}$ (ii) $\frac{JL}{KL}$ (iii) $\frac{JK}{JL}$ (iv) $\frac{JK}{KL}$ (v) $\frac{KL}{JK}$

3. From the given figure, find $\tan(90^\circ - E)$



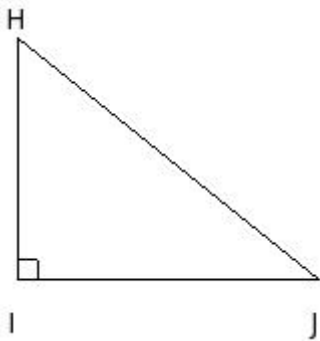
- (i) $\frac{EF}{EG}$ (ii) $\frac{EG}{FG}$ (iii) $\frac{EG}{EF}$ (iv) $\frac{EF}{FG}$ (v) $\frac{FG}{EG}$

4. From the given figure, find $\operatorname{cosec}(90^\circ - B)$



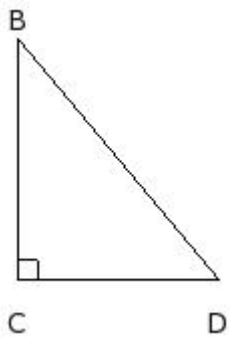
- (i) $\frac{BD}{CD}$ (ii) $\frac{BC}{CD}$ (iii) $\frac{BD}{BC}$ (iv) $\frac{CD}{BC}$ (v) $\frac{CD}{BD}$
-

5. From the given figure, find $\sec(90^\circ - J)$



- (i) $\frac{IJ}{HI}$ (ii) $\frac{HJ}{IJ}$ (iii) $\frac{HI}{IJ}$ (iv) $\frac{IJ}{HJ}$ (v) $\frac{HJ}{HI}$
-

6. From the given figure, find $\cot(90^\circ - B)$



- (i) $\frac{BC}{BD}$ (ii) $\frac{CD}{BD}$ (iii) $\frac{CD}{BC}$ (iv) $\frac{BD}{BC}$ (v) $\frac{BD}{CD}$
-

Assignment Key

- 1) (iii)
- 2) (iii)
- 3) (iv)
- 4) (iii)
- 5) (v)
- 6) (iii)