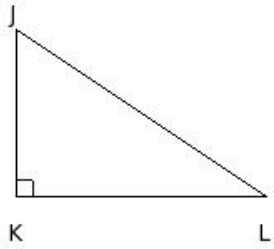
EduSahara™ Assignment

Name : Trigonometric Ratios of Complementary Angles

Chapter : Trigonometrical Ratios

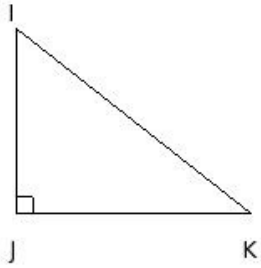
Grade : ICSE Grade IX

1. From the given figure, find $\sin(90 - J)$



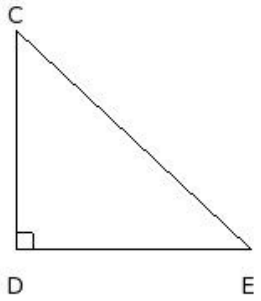
(i) $\frac{KL}{JL}$ (ii) $\frac{JK}{JL}$ (iii) $\frac{JK}{KL}$ (iv) $\frac{KL}{JK}$ (v) $\frac{JL}{KL}$

2. From the given figure, find $\cos(90 - I)$



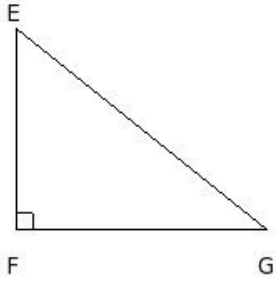
(i) $\frac{IJ}{JK}$ (ii) $\frac{IK}{IJ}$ (iii) $\frac{JK}{IJ}$ (iv) $\frac{IJ}{IK}$ (v) $\frac{JK}{IK}$

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



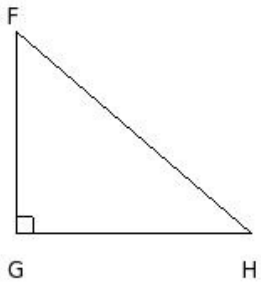
(i) $\frac{DE}{CE}$ (ii) $\frac{CD}{CE}$ (iii) $\frac{CE}{DE}$ (iv) $\frac{CE}{CD}$ (v) $\frac{DE}{CD}$

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



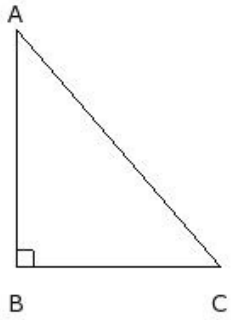
(i) $\frac{EF}{FG}$ (ii) $\frac{FG}{EF}$ (iii) $\frac{EG}{EF}$ (iv) $\frac{EF}{EG}$ (v) $\frac{EG}{FG}$

5. From the given figure, find $\sec(90 - F)$



(i) $\frac{FH}{GH}$ (ii) $\frac{GH}{FG}$ (iii) $\frac{FG}{GH}$ (iv) $\frac{FH}{FG}$ (v) $\frac{FG}{FH}$

6. From the given figure, find $\cot(90 - A)$



(i) $\frac{BC}{AC}$ (ii) $\frac{BC}{AB}$ (iii) $\frac{AB}{AC}$ (iv) $\frac{AC}{BC}$ (v) $\frac{AC}{AB}$

Assignment Key

1) (ii)	2) (v)	3) (v)	4) (v)	5) (i)	6) (ii)