



1. Which of the following are true?

- a) $\sin 55^\circ = \cos 35^\circ$
 - b) $\sin 42^\circ = \cos 42^\circ$
 - c) $\sin 56^\circ = \cos 34^\circ$
 - d) $\tan 57^\circ = \cot 33^\circ$
 - e) $\sin 24^\circ = \cos 66^\circ$
 - f) $\sec 51^\circ = \operatorname{cosec} 39^\circ$
 - g) $\cos 49^\circ = \sin 49^\circ$
- (i) {a,c,d,e,f} (ii) {b,a} (iii) {b,g,d} (iv) {g,c} (v) {b,e,f}

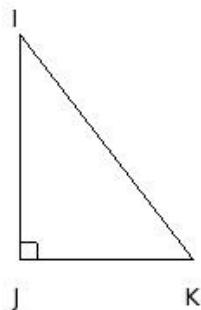
2. Which of the following are true?

- a) $\sec(90 - \theta) = \operatorname{cosec} \theta$
 - b) $\tan(90 - \theta) = -\tan \theta$
 - c) $\cos(90 - \theta) = \cot \theta$
 - d) $\cot(90 - \theta) = \tan \theta$
 - e) $\operatorname{cosec}(90 - \theta) = \sec \theta$
 - f) $\cos(90 - \theta) = \cos \theta$
- (i) {a,d,e} (ii) {c,a,d} (iii) {b,a} (iv) {f,b,e} (v) {c,d}

3. Which of the following are true?

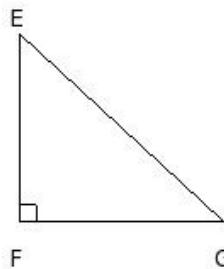
- a) $\cos(90 - \theta) = -\cos \theta$
 - b) $\sin(90 - \theta) = -\sin \theta$
 - c) $\sin(90 - \theta) = \cos \theta$
 - d) $\tan(90 - \theta) = \cot \theta$
 - e) $\cot(90 - \theta) = \tan \theta$
 - f) $\cos(90 - \theta) = \sin \theta$
- (i) {b,d} (ii) {a,c} (iii) {c,d,e,f} (iv) {a,b,e} (v) {a,f,c}

4. From the given figure, find $\sin(90 - l)$



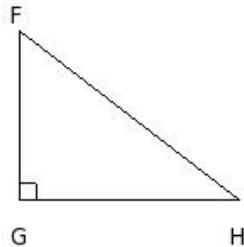
- (i) $\frac{IK}{JK}$ (ii) $\frac{IJ}{JK}$ (iii) $\frac{JK}{IK}$ (iv) $\frac{IJ}{IK}$ (v) $\frac{JK}{IJ}$

5. From the given figure, find $\cos(90 - G)$



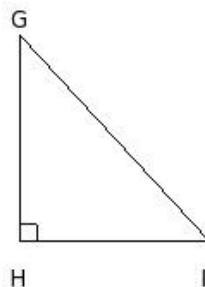
- (i) $\frac{EF}{FG}$ (ii) $\frac{EF}{EG}$ (iii) $\frac{EG}{FG}$ (iv) $\frac{FG}{EG}$ (v) $\frac{FG}{EF}$

6. From the given figure, find $\tan(90 - F)$



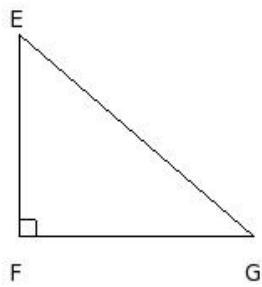
- (i) $\frac{FG}{FH}$ (ii) $\frac{FH}{FG}$ (iii) $\frac{GH}{FH}$ (iv) $\frac{FG}{GH}$ (v) $\frac{FH}{GH}$

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



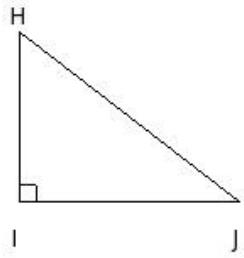
- (i) $\frac{GH}{HI}$ (ii) $\frac{HI}{GH}$ (iii) $\frac{GH}{GI}$ (iv) $\frac{GI}{HI}$ (v) $\frac{GI}{GH}$

8. From the given figure, find $\sec(90 - E)$



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

9. From the given figure, find $\cot(90 - H)$



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

Assignment Key

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- | | | | | | |
|---------|---------|----------|---------|---------|---------|
| 1) (i) | 2) (i) | 3) (iii) | 4) (iv) | 5) (ii) | 6) (iv) |
| 7) (iv) | 8) (ii) | 9) (iii) | | | |

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