EduSahara™ Learning Center Assignment

Grade : Class X, ICSE
Chapter : Trigonometrical Identities
Name : Standard Trigonometric Ratios

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1. $\sin 30° =$

(i) $(-\frac{1}{2})$ (ii) $\frac{3}{2}$ (iii) $\frac{1}{2}$ (iv) 1 (v) $\frac{1}{4}$

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2. $\cos 90° =$

(i) 0 (ii) 1 (iii) 2 (iv) (-1) (v) (-2)

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3. $\tan 60° =$

(i) 1 (ii) $\sqrt[4]{3}$ (iii) $\sqrt{5}$ (iv) 3 (v) $\sqrt{3}$

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4. $\cot 45° =$

(i) 2 (ii) 0 (iii) 1 (iv) (-2) (v) 4

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5. $\sec 60° =$

(i) (-1) (ii) 5 (iii) 2 (iv) 3 (v) 1

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6. $\operatorname{cosec} 60° =$

(i) $2\sqrt{\frac{-1}{3}}$ (ii) 2 (iii) $2\sqrt{\frac{1}{3}}$ (iv) $\frac{2}{3}$ (v) $2\sqrt[4]{\frac{1}{3}}$

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7. $\sin 30° =$

(i) $\frac{1}{4}$ (ii) $\frac{1}{2}$ (iii) $(-\frac{1}{2})$ (iv) $\frac{3}{2}$ (v) 1

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8. $\cos 90° =$

(i) (-2) (ii) 3 (iii) (-1) (iv) 0 (v) 1

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9. $\tan 60° =$

(i) 3 (ii) $\sqrt{\frac{1}{3}}$ (iii) $\sqrt{3}$ (iv) $\sqrt{5}$ (v) $\sqrt[4]{3}$

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cot

10. $30°$ =

(i) $\sqrt{6}$ (ii) $\sqrt{\frac{1}{3}}$ (iii) $\sqrt[4]{3}$ (iv) $\sqrt{3}$ (v) 3

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11. $\sec 60°$ =

(i) 2 (ii) 1 (iii) 0 (iv) 5 (v) 3

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12. $\operatorname{cosec} 30°$ =

(i) 1 (ii) 0 (iii) 2 (iv) 3 (v) 5

Assignment Key

1) (iii)
2) (i)
3) (v)
4) (iii)
5) (iii)
6) (iii)
7) (ii)
8) (iv)
9) (iii)
10) (iv)
11) (i)
12) (iii)