Tenth Grade - Trigonometry

1) Which of the following is the best option for (tanx)(sinx) + cosx

- None of these
- sec x
- cos x
- Both a and b

2) Which of the following is the best option for (tan y / sec y)

- sec y
- sin y
- cos y
- tan y

3) Which of the following is the best option for (cot²x − 1/sin²x)

- 3
- 0
- -1
- 1

4) Which of the following is the best option for (1 + tan²x) (1 + sinx) (1 − sinx)

- 0
- 7
- 1
- 3

5) Which of the following is the best option for (tan²x − 1/cos²x)

- -1
- 5
- 0
- 4

6) Which of the following is the best option for (sinx / 1 – cosx)

- cosec x + cot x
- cosec x – cot x
- 0
- 1

7) Which of the following is the best option for tanx - cotx

- (2sin²x + 2 / sinx cosx)
- (2sin²x + 1 / sinx cosx)
- (2sin²x – 2 / sinx cosx)
- (2sin²x – 1 / sinx cosx)

8) Which of the following is the best option for (sin x + cosec x)² + (cosx + secx)²

- 7 + tan³x + cot²x
- 7 + tan²x + cot²x
- 7 + tan³x + cot³x
- 7 - tan²x + cot²x

9) Which of the following is the best option for (sec?x – sec²x)

- tan²x - tan?x
- tan²x + tan?x
- tan?x + tan?x
- tan³x + tan?x

10) Which of the following is the best option for (1/secx – tanx)

- sec x + tan x
- sec x - tan x
- -sec x - tan x
- -sec x + tan x

11) Which of the following is the best option for cos?x – cos²x

- sin?x - sin²x
- sin?x – sin³x
- sin?x - sin²x
- sin?x – sin³x

12) Which of the following is the best option for (sec A + tan A) (1 – sin A)

- sec A
- cos A
- sin A
- tan A

13) Which of the following is the best option for (1+ sec A) / (sec A)

- (sec A + 1) / sec²A
- (sec A + 1) / sec³A
- (sec A + 1) / sec A
- (sec A - 1) / sec A

14) Which of the following is the best option for (cos A – sin A + 1) / (cos A + sin A – 1)

- -cosec A + cot A
- cosec A - cot A

- cosec A + cot A
- -cosec A - cot A

15) Which of the following is the best option for (cos x) × (tan x) × (cosec x)

- 9
- 0
- 1
- 4

16) Which of the following is the best option for (1 / sec²x) + (1 / cosec²x)

- 1
- -1
- 7
- 6

17) Which of the following is the best option for tan²x(cos²x)

- 1 - sin²x
- 1 - cos²x
- 1 - cosec²x
- 1 - tan²x
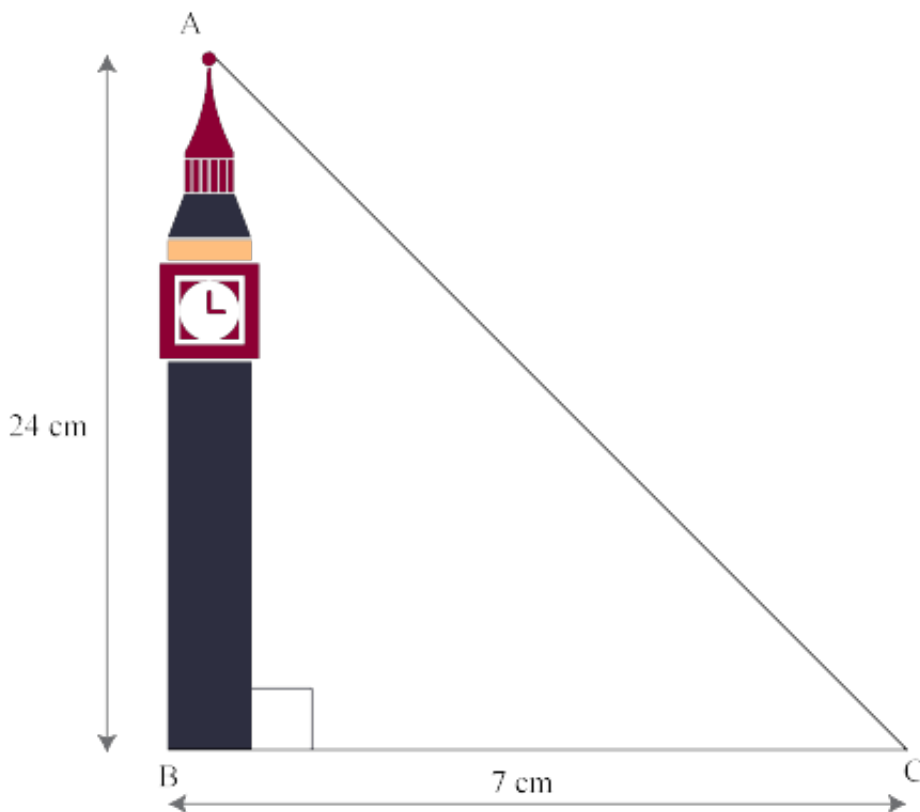
18) Which of the following is the best option for (1/cot?x) + (1/cot²x)

- sec²x - sec?x
- 1
- 9
- sec?x - sec²x

19) Which of the following is the best option for (1 + tan x) / (1 + cot x)

- sin x / cos x
- cos x / sin x
- -1
- 1

20) In ?ABC right angled at B, AB = 24 cm, BC = 7 m. Find sin A?

- 44/25
- 9/25
- 7/25
- 6/25

21) If sin A = 3/4, calculate cos A

- ?7/4
- ?5/4
- ?2/4

- ?3/4

22) If Given 15 cot A = 8, find sin A

- 15/17
- 12/17
- 16/17
- 11/17

23) Given sec ? = 13/12, calculate tan?

- 3/12
- 6/12
- 5/12
- 7/12

24) If cot ? = 7/8, evaluate (1 + sin ?) (1 - sin ?) / (1 + cos?) (1 - cos?)

- 59/64
- 29/64
- 49/64
- 69/64

25) If 3cot A = 4, evaluate (1 – tan²A / 1 + tan²A)

- 8/25
- 7/25
- 5/25
- 9/25

26) In triangle ABC, right-angled at B, if tan A = 1 / ?3 find the value of cos A cos C – sin A sin C

- -5
- 1
- 4
- 0

27) In triangle PQR, right-angled at Q, PR + QR = 25 cm and PQ = 5 cm. Determine the values of sin P
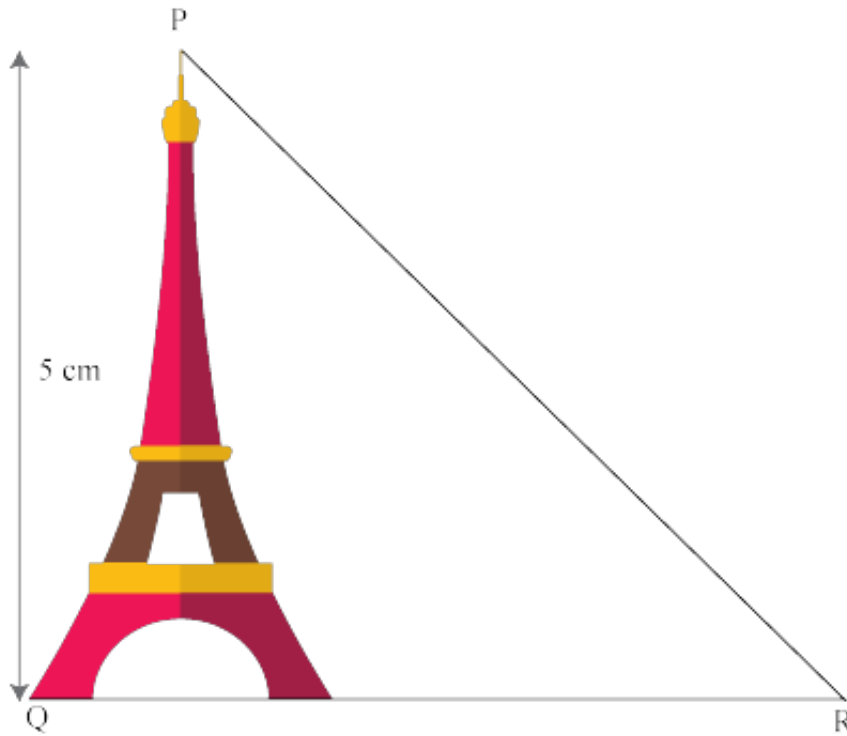
- 11/13
- 12/15
- 13/12
- 12/13

28) sin 2A = 2sin A is true when A =?

- 30°
- 60°
- 45°
- 0°

29) Solve cos 48° - sin 42°

- 0°
- 60°
- 45°
- 30°

30) Solve cosec 31° - sec 59°

- 30°
- 0°
- 45°
- 70°

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