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

5) Which of the following is the best option for $(\tan^2 x - 1/\cos^2 x)$

Tenth Grade - Trigonometry

None of these

sec x

cos xBoth a and b

2) Which of the following is the best option for (tan y / sec y)
 cos y sin y sec y tan y
3) Which of the following is the best option for (cot²x – 1/sin²x)
 0 3 1 -1
4) Which of the following is the best option for $(1 + \tan^2 x) (1 + \sin x) (1 - \sin x)$
 1 0 7 3
07

- 4
- -1
- 5
- 0
- 6) Which of the following is the best option for $(\sin x / 1 \cos x)$
 - cosec x cot x
 - 1
 - 0
 - cosec x + cot x
- 7) Which of the following is the best option for tanx cotx
 - (2sin²x + 1 / sinx cosx)
 - (2sin²x 2 / sinx cosx)
 - (2sin²x 1 / sinx cosx)
 - (2sin²x + 2 / sinx cosx)
- 8) Which of the following is the best option for $(\sin x + \csc x)^2 + (\cos x + \sec x)^2$
 - 7 tan2x + cot2x
 - $7 + \tan^3 x + \cot^3 x$
 - $7 + \tan^3 x + \cot^2 x$
 - 7 + tan2x + cot2x
- 9) Which of the following is the best option for $(\sec^2 x \sec^2 x)$
 - tan3x + tan?x
 - tan²x + tan?x
 - tan2x tan?x
 - tan?x + 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
- tan A
- sin A
- cos A

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

- (sec A + 1) / sec3A
- (sec A + 1) / sec A
- (sec A + 1) / sec²A
- (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 $(\cos x) \times (\tan x) \times (\cos x)$
--

- 4
- 9
- 0
- 1

16) Which of the following is the best option for $(1 / \sec^2 x) + (1 / \csc^2 x)$

- -1
- 7
- 1
- 6

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

- 1 tan2x
- 1 cos²x
- 1 cosec2x
- 1 sin²x

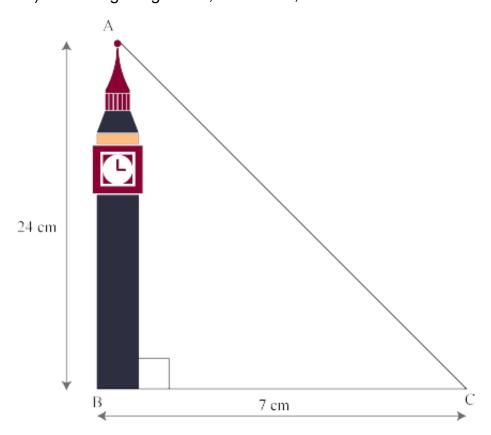
18) Which of the following is the best option for $(1/\cot^2 x) + (1/\cot^2 x)$

- sec²x sec?x
- sec?x sec²x
- 1
- 9

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

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

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



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

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

- ?7/4
- ?3/4
- ?2/4

• ?5/4

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

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

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

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

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

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

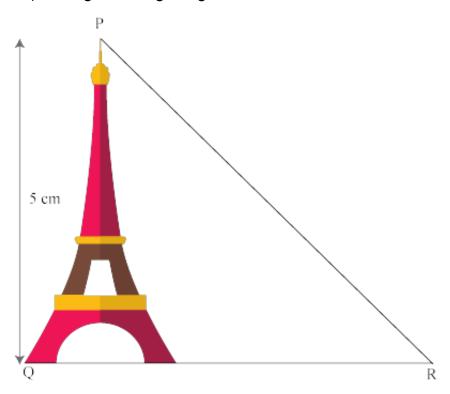
25) If
$$3\cot A = 4$$
, evaluate $(1 - \tan^2 A / 1 + \tan^2 A)$

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

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

- 4
- -5
- _ 1
- 0

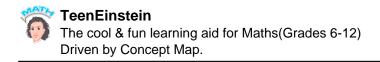
27) In triangle PQR, right-angled at Q, PR + QR = 25 cm and PQ = 5 cm. Determine the values of sin P



- 13/12
- 12/15
- 11/13
- 12/13

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

- 30°
- 60°
- 0°
- 45°



29) Solve cos 48° - sin 42°

- 30°
- 60°
- 0°
- 45°

30) Solve cosec 31° - sec 59°

- 0°
- 70°
- 30°
- 45°