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JNANAPEETA DCET ACADEMY

3. TRIGONOMETRY 1. What is the value of sin (0°)? a) 0 b) 1 c) -1 May be a second of the second d) Undefined Answer: a) 0 2. What is the value of cos(90°)? a) 0 b) 1 c) -1 d) Undefined Answer: a) 0 3. What is the value of tan(45°)? a) 0 b) 1 c) -1 d) Undefined Answer: b) 1 4. What is the value of cot(30°)? b) 1 c) -1 d) Undefined Answer: b) 1

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- 5. What is the value of sec(60°)?
- a) 0
- b) 1
- c) -1
- d) Undefined
- Answer: b) 1
- 6. What is the value of csc(45°)?
- a) 0
- b) 1
- c) -1
- d) Undefined
- Answer: b) 1
- SOS SERVICE CONTRACTOR OF THE 7. What is the formula for sin(A + B)?
 - a) sin(A) + sin(B)
- b) sin(A) sin(B)
- c) sin(A)cos(B) + cos(A)sin(B)
- d) sin(A)cos(B) cos(A)sin(B)
- Answer: c) sin(A)cos(B) + cos(A)sin(B)
- 8. What is the formula for cos(A + B)?
- a) cos(A) + cos(B) b) cos(A) cos(B)
- c) cos(A)cos(B) sin(A)sin(B)
- d) cos(A)cos(B) + sin(A)sin(B)
- Answer: d) cos(A)cos(B) + sin(A)sin(B)
- 9. What is the formula for tan(A + B)?
- a) tan(A) + tan(B)

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- b) tan(A) tan(B
- c) (tan(A) + tan(B)) / (1 tan(A)tan(B))
- d) (tan(A) tan(B)) / (1 + tan(A)tan(B))

Answer: d) (tan(A) - tan(B)) / (1 + tan(A)tan(B))

- 10. What is the formula for sin(2A)?
 - a) 2sin(A)cos(A)
 - b) sin(A) + sin(A)
 - c) sin(A)cos(A) cos(A)sin(A)
 - d) 2sin(A)sin(A)

Answer: a) 2sin(A)cos(A)

- 11. What is the formula for cos(2A)?
 - a) 2cos(A)sin(A)
 - b) cos(A) + cos(A)
 - c) cos(A)cos(A) sin(A)sin(A)
 - d) 2cos(A)cos(A)

OSS SHOW SOLVER Answer: c) cos(A)cos(A) - sin(A)sin(A)

- 12. What is the formula for tan(2A)?
 - a) 2tan(A)
 - b) tan(A) + tan(A)
 - c) (2tan(A)) / (1 tan(A)tan(A))
 - d) (tan(A) + tan(A)) / (1 tan(A)tan(A))

Answer: c) (2tan(A)) / (1 - tan(A)tan(A))

- 13. What is the formula for sin(A B)?
 - a) sin(A) + sin(B)
 - b) sin(A) sin(B)

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- c) sin(A)cos(B) cos(A)sin(B)
- d) sin(A)cos(B) + cos(A)sin(B)

Answer: c) sin(A)cos(B) - cos(A)sin(B)

- 14. What is the formula for cos(A B)?
 - a) cos(A) + cos(B)
 - b) cos(A) cos(B)
 - c) cos(A)cos(B) + sin(A)sin(B)
 - d) cos(A)cos(B) sin(A)sin(B)

Answer: d) cos(A)cos(B) - sin(A)sin(B)

- 15. What is the formula for tan(A B)?
 - a) tan(A) + tan(B)
 - b) tan(A) tan(B)
 - c) (tan(A) tan(B)) / (1 + tan(A)tan(B))
 - d) (tan(A) + tan(B)) / (1 tan(A)tan(B))

S. S. Oliver Answer: c) (tan(A) - tan(B)) / (1 + tan(A)tan(B))

- 16. What is the formula for sin(2A) in terms of sin(A)?
 - a) 2sin(A)
 - b) 2sin(A)cos(A)
 - c) sin(A)cos(A) cos(A)sin(A)
 - d) sin(A)sin(A) cos(A)cos(A)

Answer: b) 2sin(A)cos(A)

- 17. What is the formula for cos(2A) in terms of cos(A)?
 - a) 2cos(A)
 - b) 2cos(A)sin(A)
 - c) cos(A)cos(A) sin(A)sin(A)

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d) cos(A)cos(A) - 2sin(A)sin(A)

Answer: c) cos(A)cos(A) - sin(A)sin(A)

18. What is the formula for tan(2A) in terms of tan(A)?

- a) 2tan(A)
- b) tan(A) + tan(A)
- c) (2tan(A)) / (1 tan(A)tan(A))
- d) (tan(A) + tan(A)) / (1 tan(A)tan(A))

Answer: b) 360°

20. What is the period of the function v = cos(x)?

b) 360°

c) 90°

') 45°

Iswer: b) 360°

21. What is the period of the function y = tan(x)?

- a) 180°
- b) 360°
- c) 90°
- d) 45°

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Answer: a) 180°

22. What is the period of the function y = csc(x)?

- a) 180°
- b) 360°
- c) 90°
- d) 45°

Answer: a) 180°

d) 45° Answer: b) 360°

24. What is the period of the function y = cot(x)?

a) 180°

b) 360°

c) 90°

d) 45°

\text{Nnswer: a) 180°

What is the range

- a) [-1, 1]
- b) (-∞, ∞)
- c) [0, ∞)
- d) (-1, 1)

Answer: a) [-1, 1]

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26. What is the range of the function y = cos(x)?

- a) [-1, 1]
- b) (-∞, ∞)
- c) [0, ∞)
- d) (-1, 1)

Answer: a) [-1, 1]

27. What is the range of the function y = tan(x)?

Answer: b) $(-\infty, \infty)$ 28. What is the range of the function y = csc(x)?

a) [-1, 1]b) $(-\infty, \infty)$ c) $[0, \infty)$ d) (-1, 1)Inswer: b) $(-\infty, \infty)$ What is the range of x

- a) [-1, 1]
- b) (-∞, ∞)
- c) [0, ∞)
- d) (-1, 1)

Answer: c) $[0, \infty)$

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30. What is the range of the function $y = \cot(x)$?

a) [-1, 1]

b) (-∞, ∞)

c) [0, ∞)

d) (-1, 1)

Answer: b) $(-\infty, \infty)$

31. What is the value of sin(30°)?

a) 1/2

b) √2/2

c) $\sqrt{3}/2$

d) 1

Answer: a) 1/2

'5°)? 32. What is the value of cos(60°)?

a) 1/2

b) √2/2

c) $\sqrt{3/2}$

d) 1

Answer: a) 1/2

33. What is the value of tan(45°)?

a) 1

b) √2

c) v3

d) 0

Answer: b) v2

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34. What is the value of cot(60°)?

a) 1

b) √2

c) $\sqrt{3}$

d) 0

Answer: c) v3

35. What is the value of sec(45°)?

a) 1

b) √2

c) √3

d) 0

Answer: b) v2

36. What is the value of csc(30°)?

a) 1

b) √2

c) √3

d) 0

Answer: c) √3

Tifer 37. What is the value of sin(A) if cos(A) = 1/2?

a) 1/2

b) $\sqrt{2/2}$

c) V3/2

d) 1

Answer: c) v3/2

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38. What is the value of cos(A) if sin(A) = 3/5?

a) 1/2

b) $\sqrt{2/2}$

c) $\sqrt{3}/2$

d) 4/5

Answer: a) 1/2

39. What is the value of tan(A) if cos(A) = 3/4?

a) 1/2

b) $\sqrt{2/2}$

c) 5/3

d) 4/5

Answer: c) 5/3

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42. What is the value of csc(A) if sin(A) = 3/4?

a) 1/2

b) 4/3

c) 5/3

d) 4/5

Answer: d) 4/5

43. What is the value of sin(A + B) if sin(A) = 1/2 and $sin(B) = \sqrt{3}/2$?

a) 1/2

b) √2/2

c) $\sqrt{3}/2$

d) 1

Answer: c) $\sqrt{3}/2$

B) = 1, KGC/LIK 44. What is the value of cos(A + B) if cos(A) = 1/2 and $cos(B) = \sqrt{3}/2$? Alfra De Paris

a) 1/2

b) √2/2

c) $\sqrt{3/2}$

d) 1

Answer: c) $\sqrt{3}/2$

45. What is the value of tan(A + B) if tan(A) = 1 and tan(B) = -1?

a) 1

b) √2

c) -1

d) 0

Answer: c) -1

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46. What is the value of sin(2A) if sin(A) = 3/5?

- a) 24/25
- b) 4/5
- c) 7/25
- d) 5/4

Answer: a) 24/25

47. What is the value of cos(2A) if cos(A) = 4/5?

Answer: a) 16/25

48. What is the value of tan(2A) if tan(A) = 3/4?

a) 15/7

b) 7/24

c) 24/7

1) 4/3

nswer: c) 24/7

What is the value of

- a) 1/2
- b) $\sqrt{2/2}$
- c) V3/2
- d) 1

Answer: c) $\sqrt{3}/2$

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50. What is the value of cos(A - B) if cos(A) = 1/2 and $cos(B) = \sqrt{3}/2$?

a) 1/2

b) $\sqrt{2/2}$

c) $\sqrt{3}/2$

d) 1

The state of the s Answer: b) $\sqrt{2}$

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