September Sprint for CAT 2025

Class 27

Triangles

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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths

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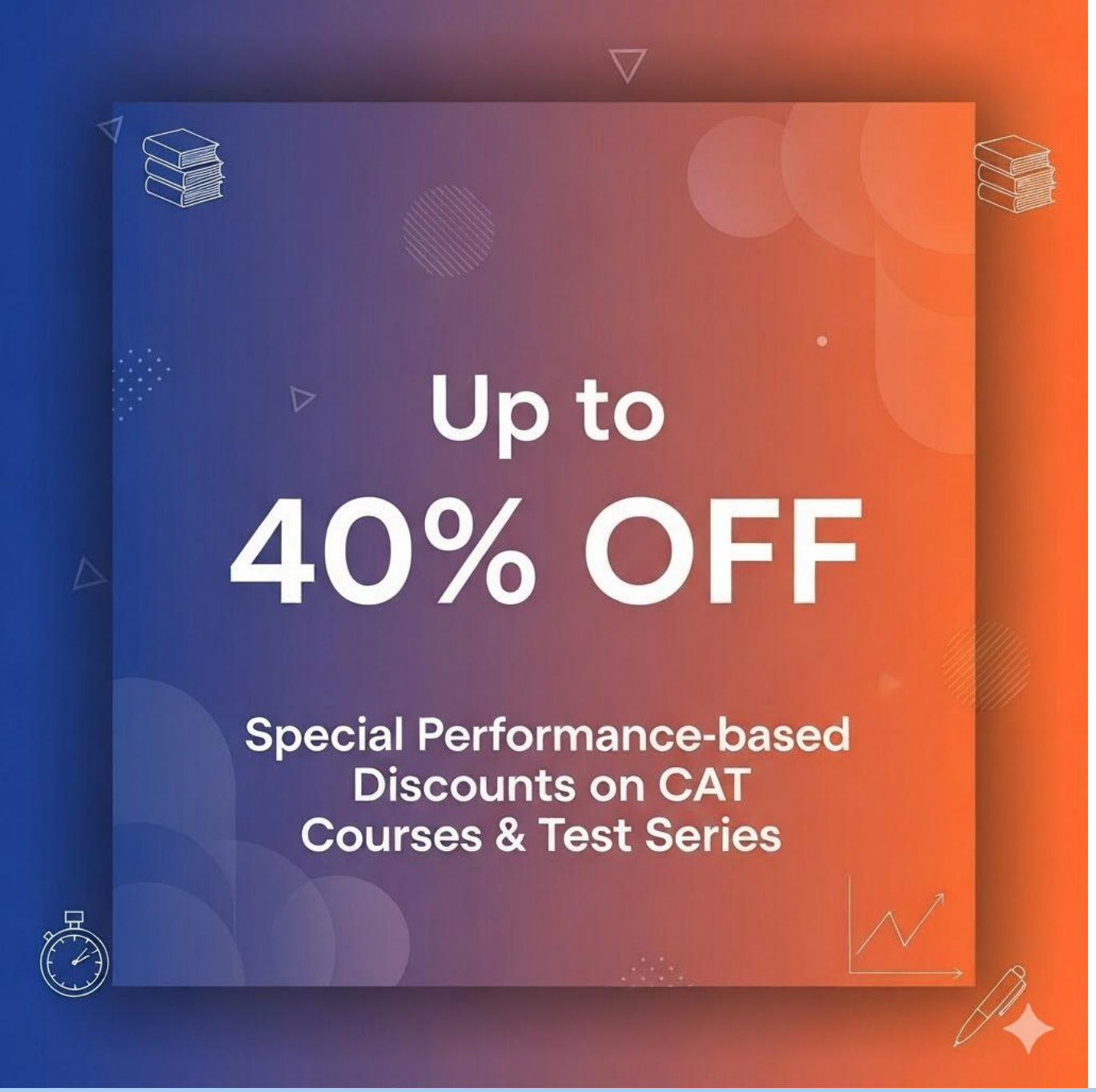
Preparing for MBA exams for 2025-26?

- Recorded concept videos
- Solved questions – basic to advanced
- Topic wise Practice sheets
- Doubt Resolution Group
- Doubt session live classes
- In VA, grammar and vocab also covered
- In LR, OMET topics covered

Price: **15000/-**

Section-wise modules are also available



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50 Day Streak for CAT 2025

Starting October 1, 2025

Daily 30 questions
10 VARC | 10 DILR | 10 QA

Answers on the next day

Challenge your friends

Elevate your score!

Follow @mbakaro for daily questions

Discuss solutions @MBAKaro

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Pause the video, solve the question and then look at the solution!

In triangle PQR, S, T, and U are points on QR, PR, and PQ respectively, such that QU=QS and RS=RT. If ∠QPR = 50°, find ∠UST.

A. 60°
B. 65°
C. 70°
D. 80°

A parallelogram has sides 15 cm and 7 cm. If one of its diagonals is 20 cm long, find the area of the parallelogram.

A. 105
B. 70
C. 90
D. 84

△ABC has integer sides x, y, z such that xz = 12. How many such triangles are possible?

A triangle has sides x^2, y^2, and z^2. Then the triangle with sides x, y, and z has to be:

A. Acute-angled
B. Right-angled
C. Obtuse-angled
D. Can be any of these three

Consider acute-angled triangles with sides 9 cm, 13 cm, and x cm. If x is an integer, then how many such triangles exist?

An obtuse-angled isosceles triangle has two of its sides equal to 7 and 10. Find the area of this triangle.

A. $8\sqrt{7}$ sq cm
B. $10\sqrt{6}$ sq cm
C. $7\sqrt{12}$ sq cm
D. $5\sqrt{43}$ sq cm

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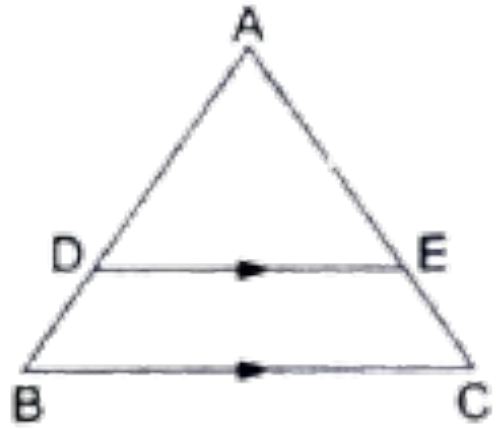
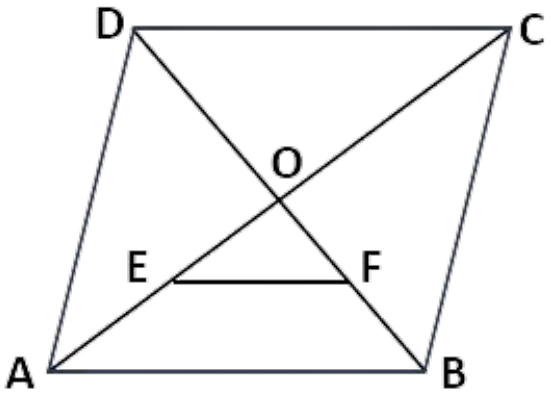
In ΔABC, DE ∥ BC, AD = (7x–4) cm, AE = (5x–2) cm, DB = (3x+4) cm and EC = 3x cm. what is the value of x?

A. 5
B. 4
C. 3
D. 2.5



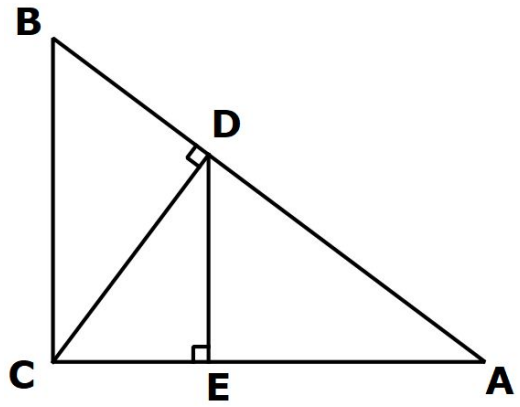
In the figure, ABCD is a rhombus. Diagonals AC and BD intersect at O. E and F are midpoints of AO and BO respectively. If AC = 16 cm and BD = 12 cm then EF is

A. 4 cm
B. 5 cm
C. 6 cm
D. 8 cm



In the given figure, ∠ACB, ∠AED, and ∠BDC are right angles. If CD = 60 mm and the area of triangle ABC is 3750 mm^2, find the perimeter of triangle CDE.

A. 120 mm
B. 144 mm
C. 156 mm
D. 168 mm



O is the orthocentre of ΔABC, and if ∠ BOC = 110°, then ∠ BAC is

A. 55°
B. 70°
C. 90°
D. 110°

ABC is an isosceles triangle with AB = AC = 10 cm, AD = 8 cm is the median on BC from A. The length of BC is

A. 6 cm
B. 8 cm
C. 9 cm
D. 12 cm

The circumradius of a right triangle of perimeter 70 cm is 14.5 cm. find the area of the triangle.

A. 203 sq cm
B. 210 sq cm
C. 232 sq cm
D. 245 sq cm

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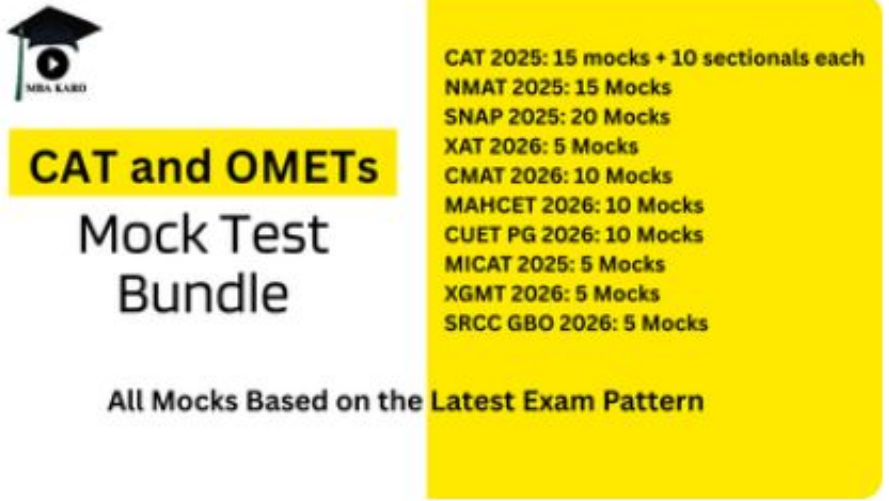
Expires On Nov 30, 2025

₹ 1,500



Expires On Apr 30, 2026

₹ 6,000

NMAT – 15
SNAP – 20
XAT – 10
CMAT – 10
MAHCET – 20
CUET PG – 10
MICAT – 5
XGMT – 5
SRCC GBO - 5

CAT and OMETs Mocks by MBA Karo

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In triangle ABC, M is the midpoint of BC. If AB = 11 cm, BC = 12 cm, and AM = 13 cm, find the length of AC.

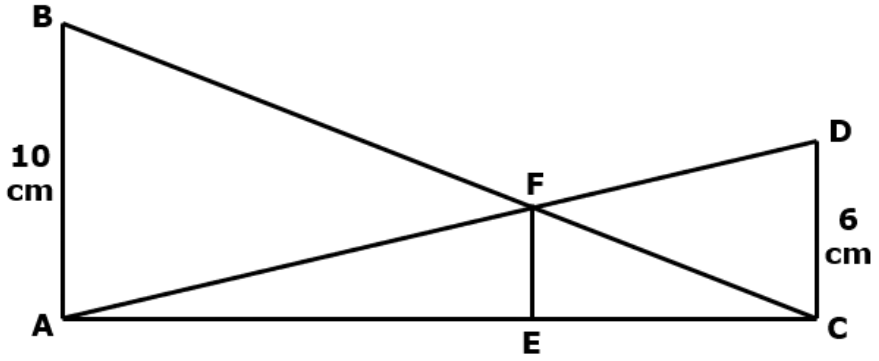
A. 19 cm
B. 17 cm
C. 15 cm
D. 14 cm

From a triangle, ABC with sides of lengths 40 ft, 25 ft, and 35 ft, a triangular portion of GBC is cut off where G is the centroid of ABC. The area, in sq ft, of the remaining portion of triangle ABC is.

A. 500/√3
B. 225/√3
C. 275/√3
D. 250√3

In the given figure, find the length of EF.

A. 6.25 cm
B. 5 cm
C. 4.5 cm
D. 3.75 cm



A painter sets a ladder up to reach the bottom of a second-story window 15 feet above the ground. The base of the ladder is 20 feet from the house. While the painter mixes the paint a neighbor's dog bumps the ladder which moves the base 4 feet farther away from the house. How far up (in feet) the side of the house does the ladder now reach?

A man standing on top of a tower sees a car coming towards the tower. If it takes 20 minutes for the angle of depression to change from 30° to 60°, what is the time remaining for the car to reach the tower?

A. $20\sqrt{3}$ minutes
B. 10 minutes
C. $10\sqrt{3}$ minutes
D. 5 minutes

Consider a regular hexagon ABCDEF. There are towers placed at B and D. The angle of elevation from A to the tower at B is 30 degrees, and to the top of the tower at D is 45 degrees. What is the ratio of the heights of towers at B and D?

A. $1:\sqrt{3}$
B. $1:2\sqrt{3}$
C. 1:2
D. $3:4\sqrt{3}$

Two observers, A and B, are standing at different locations on the ground and are both looking at a hot air balloon directly above them. Observer A, looking towards the North, has an angle of elevation of 30 degrees to the balloon. Observer B, looking towards the West, has an angle of elevation of 60 degrees. If the distance between observers A and B is 600 m, what is the height of the hot air balloon above the ground?

A. $600\sqrt{3}$ m
B. $1200\sqrt{3}$ m
C. $60\sqrt{30}$ m
D. $120\sqrt{30}$ m

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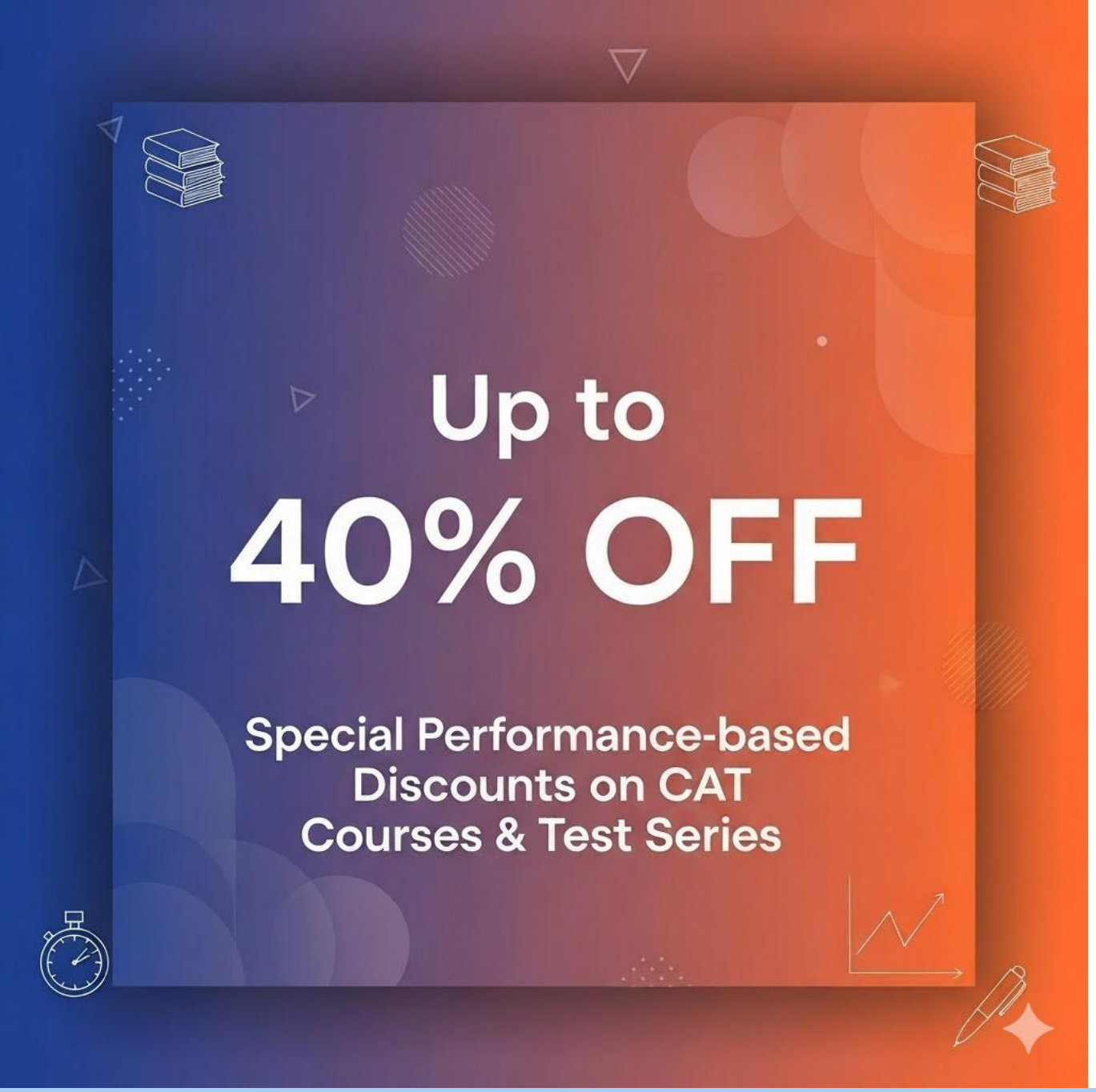

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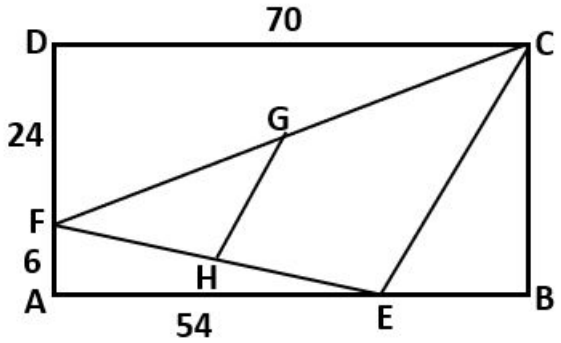
How many isosceles triangles with integer sides are possible such that the sum of two of the sides is 16 units?

In the given figure, ABCD is a rectangle. G and H are midpoints of FC and FE respectively. Find the length of GH.



If the length of the sides of a triangle are in the ratio 4:5:6 and the inradius of the triangle is 3 cm, then the altitude of the triangle corresponding to the largest side as the base is

A. 6 cm B. 7.5 cm C. 9 cm D. 10 cm

The length of each side of an equilateral triangle PQR is 4 cm. Let T be a point on QR such that the area of triangle PQT is three times the area of triangle PRT. Find the length of PT.

A. √11 cm B. √12 cm C. √13 cm D. √14 cm

Answer in Comments

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