

SARATH AS, GHS ANCHACHAVADI, MALAPPURAM









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	c) Similarly write cos 35 [°] from this triangle ?	
	d) If an angle of a right triangle is x^0 , what is the relation between $\sin x^0$ and	
	$\cos(90-x)^0$?	
33	In the figure, $AB = 8 cm$, $< APB = 150^{\circ}$. <i>C</i> is a point on the alternate arc of	
	the arc APB.	
	a) What is the measure of <i>< ACB</i> ?	7
	b) What is the diameter of the circumcircle of	3
	150° B	
	the triangle ABC ?	
34	In the figure , $ O is the centre of the circle.$	
	a) What is the angle made by the arc BAC on its alternate	
	arc ? $B \xrightarrow{120^{\circ}} C$	3
	b) What is the measure of <i><boc< i=""> ?</boc<></i>	
35	c) What is the radius of the circle ? When sun is an elevation of 60°, the length of the shadow of a tree is 15 meters.	
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	a) Draw a rough figure based on the given details ?	
	b) What is the height of the tree ?	
	c) What will be the length of the shadow if sun is an elevation of 30° ? ``	3
36	A man standing 100 metres away from a building sees its top at an elevation of	
	45°.	
	a) Draw a rough figure based on the given details ?	2
	b) Compute the height of the building ?	
37	A man standing away from a hill sees its top at an elevation of 60 [°] . The height	
	of the hill is $300\sqrt{3}$ metres.	

	a) Draw a rough figure based on the given details ?	
	b) Compute the distance between the man and the hill ?	
38	Two children stand on either side of a flag post of height 50 meters . First child	
	sees the top of the flag post at an elevation of 45° and the second child sees it	
	at an elevation of 30°	
	a) Draw a rough figure based on the given details?	
	b) What is the distance between the flag post and the first child ?	
	c) What is the distance between the flag post and the second child ?	
39	A man standing on the bottom of a building sees the top of a tower at an elevation	
	of 45° and sees it from the top of the building at an elevation of 30° .	
	The tower is 66 metres away from the building .	
	a) Draw a rough figure based on the given details ?	
	b) What is the height of the tower ?	
	c) What is the height of the building ?	
40	A man standing on the bottom of a hill sees the top of a mountain at an	
	elevation of 60° and sees it from the top of the hill at an elevation of 45° .	
	The mountain is 500 metres away from the hill .	
	a) Draw a rough figure based on the given details ?	
	b) What is the height of the mountain ?	
	c) What is the height of the hill ?	
41	A man standing away from the bottom of a tower sees its top at an elevation of	
	60°. Standing back by 50 metres , he sees it an elevation of 30° .	
	a) Draw a rough figure based on the given details ?	
	b) What is the height of the tower ?	

42	A man standing away from the bottom of a flag post sees its top at an elevation of	
	30° . Moving 20 metres towards the flag post , he sees its top at an elevation of	
	60°.	4
	a) Draw a rough figure based on the given details ?	•
	b) What is the height of the flag post ?	
43	A boy standing 300 meters away from the bottom of a hill sees its top at an	
	elevation of 30° . Moving few metres towards the hill , he sees it an elevation of	
	60°.	
	a) Draw a rough figure based on the given details?	4
	b) What is the height of the hill ?	
	c) How far does the boy move towards the hill ?	
44	A boy standing 600 meters away from the bottom of a mountain sees its top at	
	an elevation of 60° . Standing back by few metres , he sees it an elevation of 30°	
	a) Draw a rough figure based on the given details?	
	b) What is the height of the mountain ?	4
	c) How far does the boy move backward ?	-
45	Raju and Geetha stand on either side of a tower . Raju sees the top of the	
	building at an elevation 30° and Geetha sees it an elevation of 45° . After moving	
	80 metres towards the tower , Raju sees its top at an elevation 60°	
	a) Draw a rough figure based on the given details ?	
		4
	b) What is the height of the tower ?	
	c) What is the distance between the tower and Geetha ?	
46	A man standing on the top of a tower sees a car 40 m away from the foot of the	
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-	tower at a depression of 60° .	

	b)What is the height of the tower ?	2
47	A man standing on the top of a building sees the top of a tower at a depression of 30° and its base at a depression of 60°. The distance between the building	
	and the tower is 90 metres .	
	a) Draw a rough figure based on the given details ?	4
	b) What is the height of the building ?	
	c) What is the height of the tower ?	
48	A man standing on the top of a building sees the top of a tower at an elevation	
	of 30° and its base at a depression of 45° from . The height of the building is	
	75 metres.	
	a) Draw a rough figure based on the given details ?	4
	b) What is the distance between the building and the tower ?	
	c) What is the height of the tower ?	
49	A man standing on the top of a building sees the top of a hill at an elevation of	
	45° and its base at a depression of 60° .	
	The height of the building is $50\sqrt{3}$ metres.	4
	a) Draw a rough figure based on the given details ?	
	b) What is the distance between the hill and the building ?	
	c) What is the height of the hill ?	
50	In the figure ABCD is a rectangle . $AB = 9 \text{ cm}$	
	$< ABD = 60^{\circ}$, $< CDE = 45^{\circ}$.	
	a) What is the measure of < ADB ? D	
	b) What are the lengths of BD and DE ?	5
	c) What is the measure of < BDE ?	
	d) What is the ratio of the length of the sides if the ratio 60°	
	of angles of a triangle is 30° , 45° and 105° ? A $9 \ cm$ B	

<	$< ABD = 30^{\circ}$, $< CDE = 45^{\circ}$.
a	a) What is the measure of < ADB ?
b	b) What are the lengths of BD and DE ? $D = D = C$
C	c) What is the measure of $<$ BDE ?
d	d) What is the ratio of the length of the sides if the ratio 30°
	of angles of a triangle is 45°, 60° and 75°?

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