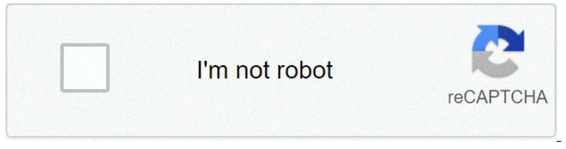

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Trigonometry chapter for ssc cgl pdf

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The height of the tower is: Question 2 If $$ u_n = cos + sin ^ n I ^ n I Â ± Â ± $$, then the value of $$ 2u_6 - 3u_4 + 1 $$ is: If Question 3 sin (x + y) = cos [3 (x + y)], then the value of tan [2 (x + y)] is: If question 4 0 Â ¤ Â Â ± a ¤ I / 2 and + 15 Â ± 2sinÃ cos ^ 2 = Â ± 7 then the cot value I Â ± is: If I question 5 is an acute angle and $$ \ tan ^ 2 \ theta + \ frac { 1} {\ tan ^ 2 \ theta} = 2 $$ then the value of i is: If question 6 $$ \ frac {\ cos \ alpha} {\ sin \ beta} = n $$ and $$ \ frac {\ cos \ alpha} {\ cos \ beta} = m $$ $$ then the value \ cos ^ {2} \ beta $$ is AC question 7 $$ If sin \ theta + \ sin ^ 2 \ theta = 1 $$, then the value cos12 $$ \ theta $ $ + 3cos10 $$ \ theta + cos6 $$ $$ \ theta + Ã 3cos8 $$ $$ \ theta $$ Ã - 1A is question 8 If $$ x = cosec \ theta-sin \ theta and $$ $$ y = sec \ theta-cos \ theta $$, then the value of $$ X2Y2 (x2 + y2 + 3) $$ question 9 the minimum value of $$ (4 sec ^ 2 \ theta + 9cosec ^ 2 \ theta) $$ do sends 10 is $$ 5tan \ theta = 4 $$, then the OFA $$ value (\ frac {5sin \ theta - 3cos \ theta} {5sin \ theta + 3cos \ theta}) $$ is no question the value 11 minimum 4cosec ^ 2 + 9sin Ã Â ± Ã Â ± ^ 2 is: Question 12 then the value of p If pi = a sin 3 cos ep i = 1, is: C Question 13 If sin 2i = 1/2, then the value of cos (75A Â ° to - I) is: question 14 If the number of vertices, edges and faces of a parallelepiped rectangualr is highlighted by v, e and f, respectively, the value of (v - e + f) is no question 15 P and Q are two points observed from the upper part of a building 10a 3 m in height. If the points of the depression angles are complementary and PQ = 20m, then the P away from the building is Question 16 if $$ \ alpha $$ is an acute angle positive and $$ 2sin \ alpha ^ {2 + 15cos } \ alpha = 7 $$, then the Cota value is: 2 17 If question (a ^ 2 - 2 AB ^) sin i + 2 so ab = a ^ 2 + b ^ 2, then the value of Tani Â ¯ AC application 18 If tani - Coti = Â Â ± and so Sini = b, then the value of (a ^ 2 + 4) (b ^ 2 - A1) ^ 2 is: question 19 $$ 1 - \ frac sin ^ 2 {A} {1 + cos A} + \ frac {1 + cos A sin A} {} - \ frac {sin A} {1 - cos A} $$ demand 20 If tan (x + y) tan (x - Y) = 1, then the value of tan x is: question 21 a boy standing in the middle of a field, observes a bird flying in the north with an elevation angle of 30 Â ° C and after 2 minutes, he observes the same bird in the south with a 60 Â ° angle of elevation. If the bird flies along a straight line at a height of 50 m, so its speed in km / h is: Question 22 In a right angled triangle ABC Ã, Ã ¢ B is the right angle and AC = 2A ¢ 5A cm. If AB - BC = 2 cm then the $$ value (cos ^ 2 A - cos ^ 2 C) $$ is: Question 23 If cradle cosec A + A = 3 and A is an acute angle, then the value cos a is: question 24 The value of (1 + 20 Â ° Â ° 70 sec + cot) * (1 - cosec 20 Â ° Â ° + 70 tan) is? Question 25 If x * sin ^ 3 * cos i + y ^ 3 = a 0 Sini * COSI former Sini - COSI y = 0, then the value of (x ^ 2 + y ^ 2) The value of 26 is no question $$ \ frac {sin 43 ^ {\ circ}} {cos 47 ^ {\ circ}} + \ frac {cos 19 ^ {\ circ}} sin {71 ^ {\ circ}} - 8cos ^ {2} 60 ^ {\ $$ APPOI 27 SE $$ Sin Frac {Pi} {x} {2} = x ^ {2} -2x + 2 $$, then the value of x is asked 28 if $$ Pi $$ x $$ = x ^ {2} -x + frac {5} {4} $$ The EU value of x will be asked 29 if tanning $$ Theta $$ + cot $$ Theta $$ = 2 then the value of $$ Theta $$ is asked 30 What is the simplified value of $$ Cosec2a + + ? Question 31 Find the value of TAN TAN 4 Â ° 43A Â ° TAN TAN 47 Â ° 86A Question 32 If tanning I + cot I = 5, then $$ TAN ^ 2 I + cot ^ 2 I $$ is asked 33 Elevation corner of a tower from a distance of 100 meters from its foot is 30 Â °. Then the height of the tower is c $$ frac {50} {sqrt {3}} $$ meter d$$ frac {100} {sqrt {3}} $$ Metro question 34 If you are seg - CosecÃ Z Â¸ = 0, then the value of (SECI + COSECÃŽÃ¸) is: question 35 What is the value of $$ (frac {2} {sqrt {3}} + tan45 ^ circ) $$? To $$ Frac {(1+ sqrt {6})} {sqrt {3}} $$ B $$ Frac {(2+ sqrt {3})} {sqrt {3}} $$ Question 36 If $$ 0 leq Theta Leq Frac {more} {2} $$, $$ 2cos theta = sin theta $$ and $$ frac {x} {2cosec theta} = y $$, then the value of $$ x ^ 2-4Y ^ 2 $$, is query 37 when I am keen angle and tan (4i - 50 Â °) = cot (50 Â ° - i), then the value 9 A degree is: Question 38 The minimum value of $$ 2Sin ^ {2} $$ I + $$ 3COS ^ {2} $$ I is question 39 The numeric value of $$ 1 + Frac {1} {cradle ^ {2} 63 ^ {circ}} - sec ^ {2} 27 ^ {circ} + frac {1} {sin ^ {2} 63 ^ {circ}} - COSEC ^ {2} 27 ^ {circ} $$ is asked 40 if $$ x so - Sini = 1, $$ then $$ x ^ {2} - (1 + x ^ {2}) Sini $$ Equal question 41 The value of tan1ã, Â ° tan2ã, Â ° tan3ã, â ° Ã ¢ Ã ¢ Ã ¢ Ã ¢ ¢ ¢ | tan89ã, Â ° is query 42 if 0 Â ° ¢ â € Â¤ 90 Â °, The simplified form of the date expression sin a cos a (tan a - cradle a) is a matter of 43 a person of height 6 feet. He wants to take a fruit, which is on a 26/3 ft. Tall tree. If the person is standing 8/3 feet. Far from the base of the tree, then in which corner he should have thrown a stone so that he hits the fruit? Question 44 If SECI + Tani = P, (P A 0), then SECI is equal to to $$ [P- FRAC {1} {p}], PEQ 0 $$ $$ B 2 [P- FRAC {1} {} p], PEQ 0 $$ C $$ [P + Frac {1} {} P], PEQ 0 $$ D $$ Frac {1} {2} [P + Frac {1 } {} p], PEQ 0 $$ Question 45 The value of $$ Sin ^ {2} $$ 22 Â ° + $$ sin ^ {2} $ 68a Â ° + $$ cot ^ {2} $$ 30 Â ° Is Question 46 A kite is flying at 75m from the ground. The string makes a corner (where Cothi = 8/15) with the flat surface. Starting from the assumption that there is no loosening in the string the length of the string is equal to: Question 47 if $$ sin I + sin ^ {2} i = 1 $$ then $$ Cos ^ 2 I + so ^ 4 I $$ It is equal to 48 Question The numeric value of $$ Frac {COS ^ 2 45 CIRC} {sin ^ 2 60 CIRC} + FRAC {COS ^ 2 60 CIRC} {SIN ^ 2 45 circ} - frac {tan ^ 230 circ} {cot ^ 245 circ} - frac {sin ^ 230 circ} {cradle ^ 230 circ} $$ is required 49 The maximum value of sin I + Cos i 'question 50 if a = 30 Â °, b = 60 Â ° C E = 135a Â °, then what is the value of $$ SIN ^ 3A + COS ^ 3B + TAN ^ 3C - 3SIN in COS B Tan C $$? Question 51 What is the minimum value of $$ Tan ^ 2i + Cot ^ 2i + sin ^ 2i + Cos ^ 2i + Sec ^ 2i + Cosec ^ 2i $$? {{? ChapterIdtoChapterDetailsMap [Chapter.id] .Totemptedques> ChapterItToChapterDetailsMap [Chapter.id] .Totalques ChapterItToChapterDetailQues [Chapter.id] .Totalques: ChapterIttoChapterDailsSmap [Chapter.id] .TaTtemptedques)}} / {{ChapterItToChapterDetailSmap [Chapter.id] .totalques}} Questions Today we talk about a very important and high chapter Weighttage Trigonometry. Also, you get brief notes of Trignometry and an all-important formulas sheet for this! This will surely help you in competitions like Jee, NDA, Bitsat, NTST, SSC-CGL, ChSL etc.First of everything, we talk about basic formulas and trigonometry identities: -1) Trigonometrics reports ,: -SinÃžâ ¸ = p / h o l / ka a thus = b / h or a / ktanÃžÃ¸ = p / b o l / aa a coti = b / p o l / asecÃžÃ¸ = h / b o k / Aa cosecÃžÃ¸ = h / p or k / lherep- perpendicular HympotenuseãÃ, B - Basel -ã, Ã â²Ã â € œ â â² Â¤â², one -a Ãƒ, Ã ¸ Â¤ Â¤§Ã Â¤â¾ã â € œâ € â € œâ € â € œÂ¤ â € Â â â â â â â â â â â â â â â â â â â ¢ â ¢ ¢ Ã¶ Always remember perpendicular side yes Find in front of the corner (s) .Trick to learn-ã, for English: - PBP / HHB [Pandit Badri Prasad Har Har For Hindi: - LAL / KKA [Ã Â¤Ã Â¤â¾Ã Â¤Â¤Â² ÃƒÂ¤ÃÂ¤ ÃƒÂ¤ Ã ÃƒÂ ÃƒÂ¤ Â Â¤ â¾¼]] Sinà, Â²ÃžÃ¸ + CosÃ¸Â²ÃžÃ¸ = 1 + 1ã, ã, Tanã ,,Â²ÃžÃ¸Â¸Ã¸ = SecÃ¸Â²ÃžÃ¸Â¸Ã¸ 1 + ã, COTÃÂ²Ãž a = CosecÃ¸Â²ÃžÃ¸Â² ¸3) Trigonometric report Table Table I 0 Â ° 30 Â ° 45 Â ° 60 Â ° 90 Â ° Sini 0 1/2 1 / A 2 to 3/2 1 Thus 1 Â ¢ 3/2 1 / A 2 1 / 2 0 TANE 0 1 / A 3 1 to 3 A COTI A 3 1 1 / A 3 0 SECI 1 2 / A 3 A 2 2 Â ¢ CosecÃžÃ¸ A 2 to 2 2 / A 3 1 A) Sin X. sec y = 1 hour sin x = so y b) so. cosec y = 1 hour now X = Y COSEC C) TAN TAN X. Y = 1a or tan x = y cradle d) so, x + y = so, 1e) sinÃ²x + sinÃ¸Â² y = 1 f) cot cot x. y = 1 a) SIN (X + Y) = SINX. Cozy + COSX SINY B) SIN (X A Y) = SINX. Cozy Ã ¢ COSX SINY C) COS (X + Y) = COSX. Cozy Ã ¢ Sinx SINY D) COS (X-Y) = COSX. welcoming + sinx siny e) 2 sinx.cosy = sin (x + y) + sin (x-y) f) 2 cosx. Siny = sin (x + y) -sin (x-y) g) 2 sinx. SINY = COS (X-y) -COS (X + Y) H) 2 COSX.COSY = COS (X + Y) + COS (X-Y) i) SinÃ¸Â²x-sinÃ¸Â²Y = Sin (X + Y). Sin (XY) J) CosÃ¸Â²X-CosÃ¸Â²y = so (x + y) .cos (xy) a) if x + y + z = 180 Â ° then, tan x + y + tan tan z = tan x . TAN TAN Y. Z B) If X + Y + Z = 90 Â °, Cot X + Cot Y + Cot Z = Cradle X Crib y zhow for download: ã, just click on 'Download PDF Notes' in Green button then you will open a page that contains these short notes on Google Drive.ã, wait 30 seconds and after clicking on the image download on. You can see them on that page or you can download (on the download button will be at the top right.) 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