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DEPARTMENT OF MATHEMATICS

23GET275 VQAR-I UNIT-1

Interest = Principal + Simple 1) Interest Amount 2) SI P XR XT 100 3) P 100 X A LOO +RT 4) SI Amo 100+ Time R > Simple Interest 5) rate interest Viimon 6. on amou deposited bn Af 1.9 Connteg Poob D money ind -16 rato 4 Sur becomes





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classmate Date Calculating rate Interest will 02 be aiven 100 (n-1 S. 204 100 (n-1) 100X 20 T_{2} 20 2) Sum two times comes in interest mo miti interes money_ at times n then forme for 12 ven n 2 -2 3 E h 3 times becomes Same Sum becomes





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desense duration times Same in Cortai money mie becomes and ന then n=33 25 2 4) Contain Sum is certain time becomes 2500 at rate of 8%. per annum Same Sum amounts. 9-200 0 Der annum SI ination. Find Sum and Hick a Cest to amount Sum Same amoun 9-A O An





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	Classmate Page
	Shi R, = 81., R== 27., A1= 2500, A2= 2200
	$P = A_2 R_1 - A_1 R_2 = (ROOXR) - (SOOXR)$
	R1-R2 8-2
	= 1600-1000 = 600 = 2100.
	6 6
	T = A1 - A2 100 · · ·
	$\overline{A_2R_1-A_1R_2}$
	- 500-200 × 100
	(200×8) - (500×2)
-	- 300 x 100 - 50 yr.
	A certain sum at a certain rate of SI amounts lo 2-1125 in 4yr and 21200 in Tyr. Find the sum and rate of interest. [Hint: If the rate of interest is uniform in above mentioned condition and time is variable. then $p = (A_2T_1 - A_1T_2)$ and $R = (A_1 - A_2) \times 1007$ Hen $p = (A_2T_1 - A_1T_2)$ and $R = (A_1 - A_2) \times 1007$ $A_2T_1 - A_1T_2 - (A_2 - A_1T_2)$ Solar $A_1 = 2112s$, $A_2 = 21200$, $T_1 = hyr$, $T_2 = 7yr$ $P = A_2T_1 - A_1T_2 - (1200 \times H) - (1125 \times T)$ $T_1 - T_2 - 4 - 7$ = 4800 - 7875 - 3075 = 21025
2	-3 -3
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DEPARTMENT OF MATHEMATICS R= A1 - A2 × 100 ADTI - ATT = (1125-1200) (1200x1) - (112527) ×100 - - 7500 - -4800-7875 R=243 % Compound Interest Compound Interest = Amount - Principal Difference Letween CI&ST i) for 2 yr = p/R 12 = SI XR ()(11) for 3) interest for a certain sum for Simple Zyr at the annual rate of interest Ry. -then it is applicable only for syr) a certain Sum at Compound interest mes x times in n, yr and y times in , then notr x hi -





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elassmate tiete 5) If a certain sum at cI becomes A, innya and A.D. in (n+1) yr, then Os Rate of interest CI = (A2-A) ×100%. If the population of a city is P and it increases with the rate of R1. per somum, then is population after nyr = P (10 R)n (i) Population nyr ago = P (1+ B_m)" difference between CE and SI for at rate of 5% per annum is 25, find the . formula no. 20) ()se Difference (D) = 25, rate (R) = 5% = P/RI XSX 2000-LOOX100





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decompte Dote difference between CI and The af -the of 20% pa 2 rata principal 2er -th 21 420 SI 10 52 X 25X 16 25 X 5 9.5X 1187.5 Si 6 come 16 ro ormu Su X he omes 2n in 22 -21





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Date Page 82 becomes 16n in do 7=16 =2, na × 12 4× /22 n-SXL = 20 money CI amos invested at in 3yr. 80 9840 lat rat Per annum an de Alo Hist : mene 80 \$40 2 Los 8no . 800 . Sum 800) 84 2725.62 320000 - 800x800 y 800 840 840 44)