2012. a) In = 5 300 my my k-n-2. pallenonymen  $\begin{cases} \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - \frac{\partial \mathcal{L}}{\partial n} = \int \frac{\partial \mathcal{L}}{\partial n} - 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5 5 min - 5 1-cos 2 - ( ) t - 5 midn ( = 5 ( + 6) + 1 + 1/4 + 1/ -- 5 to + 5 to -- 2 la (to) + 2 la (to) -2 la (cosn-1) + 2 la (cosn-1) 5 30 = - 95:nox - 360 500 7 3 (41 (05x4) + 3 (41 (05x4)) + ( 8) tn= 5 705 3 (4>2) (and sonverso) pytholo K= 4-2 1 05 x = 1 (05 x 605x dx = (05 x 51nx + 5 (-K-1) 205 x - 51n 2 d = (05 7 5:1 x + (-t-1) 5 105 x dx - (-t-1) 5 105 x dx = 528 S(05 ) 1 )x = - (05 x 5, n) + - + S(05 2) X  $\frac{1}{5} \frac{1}{(0.5)} \frac{1}{(0.$