7eb. 23.,50, 323

Dear Mrs howe, I do apologize for my long delay in antwering your letter I togs intended to answe it immediately, but since then the matternatical task after another has used up my space time has been used up by one inathematical task after another - paper some paper to prepare for publication, some examination papers to compose & other to check, & Then the final blow of a once rejected M.Sc. there's returned fer my proved me to examme. I was very somy that you were not able the to come to my lecture, though I must confers to a slight feeling of rehet when I learnt of the remandered in remote one of and at least two of which are still to be found in the remembered by old folk in the Mighting price to remote parts of the Highlands. One of my examples "The Killing If the other is actaully still performed on the Isle of Eig.
With one exception, there "little plays were performed at the backets for the enlectummed.
The brighland examples
A on lookers. They seem often to have been performed to dance-songs, it the mining steems to have been largely determined by the words of the. song. There are only too horstand examples mentioned in the Interative (a none survive traditionally so far as I know), and there being the two mentioned in one of Cromek's Reliquées of Robert Burns. I am, I was concerned with comminced that in these block plays we have late survivors of the mediaeval folk-entertainments which gave rise to the Shipabethan stage fig - hence my churce of title for my lecture.

3.) 1.) x(x-1) dy +(x-3) y = (x-1) 2.  $\frac{dy}{dx} + \frac{x^{-3}}{x(x^{-1})}y = \frac{x^{-1}}{x}$  $\int \frac{2x-3}{x(x-1)} dx = \int \left(\frac{3}{x} - \frac{2}{x-1}\right) dx = 3\log x - 2\log(x-1)$   $\frac{3\log_x - 2\log_y(x-1)}{2} = \frac{2\log_x - 2\log_y(x-1)}{2\log_x - 2\log_y(x-1)}$   $\frac{2\log_y(x-1)}{2\log_y(x-1)} = \frac{2}{(x-1)^2}$  $\frac{d \int x^{3} y^{2}}{dx (x-1)^{2}} = \frac{x^{2}}{x-1}$  $\frac{1}{(x-1)^2} \frac{x^3}{y} = \int \frac{x^2}{x-1} dx = \int \frac{1}{x-1} \frac{1}{x} dx$  $\frac{1}{(x-1)^2} \frac{x^3}{y} = \frac{x^2}{2} + \log(x-1) + C$ idy + 3y-x=4et  $(D+5)x + y = e^{t}$ (1) - x + (D+3) y = 4 e. (2) (2) x (D+5)  $-(D+5) \times + (D+3) (D+5) = 24e^{k}$  (3) (14(3) gives. y + (D+3) (D+5) y = 25e. (D"+8D+16)y =25et. (D+4) g = 0. D = -4. Solr is y = (A+Bt)e-4t.

32.4 The one exception which I mention is the famous Carlleach an Dudam', shick in plot seens to be a fog which contains a death ([see J. E.F.D.S.S. 1958, p. ]) a resurrection But even this was regarded bat least latterly], purely as entertamment I did not go back beyond ca 1780, because There are no 7 the to not know of any descriptions of such entertainments among the Scottish folk pros to that date. There is one to references to dance and as an after math of drama, but their does not refer explicitly to for the folk (though the implication is that we may reasonably infor that such forms of entertainment would then have been popular). I must confers that the reference in the rabes Cantin is new to me. I mined Danney says that there are no the recognisably Scottish and in this work, a I midread this to apply to the words as well - & in consequence have never bottered to look at it. Our researches in Scottish dancing have been mainly concerned with post Reformation Times, the principally because often (& indeed mainly with the period 1700-1900 ; the seventeenthe century being almost wholey & a blank so far as references to dancing are concerned). Rere is not enough instead pre-Reformation naterial to be able to say anything really worth-while about dancing the. then. A form of real was known (earliest reference on 1525), and we do not know what there were like. Scottinh a Morris (ditto), but but really that is all. The Sourt deneed the court Dances of Europe, but we have practically no idea of what however file dancing in the folk dancing in the form that so how the folk danced of the danced that believe that Scotland was distinct from that trugtered in itingland; There is no real geographical bardes to account for such distinctions, and any distinctions in the present day style of Scottant & English folk dancers are due entirely to the mingended attempts of the Scots to transfer Their folk dances to the politic balloom dances

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· ziii): solm is y = (A+BE)e<sup>-E</sup>. = (A+Blogx). 1 P.I £ (D<sup>2</sup>+2D+1)y = e<sup>t</sup> + e<sup>-t</sup>. = \_e + e  $(2+1)^2$   $(2+1)^2$  $= \underbrace{e^{t}}_{t} + \underbrace{e^{-t}}_{D^{2}} \underbrace{(1)}_{T}$  $= \frac{e^{k}}{2} + \frac{e^{-k}}{2}$ : complete soln is  $y = \frac{1}{2} \left\{ A + B \log x \right\} + \frac{1}{4} \left\{ \log x \right\}^{2}$ = = = {A+(B+1)logx} + =

But all this is of no use to you in your problem concerning the Thip'& Goe nedley. I will certainly look at the Forber centur on room on I get the opportunity, but until then, I could help you, I am afrend .

211) P.I. (D+4) y = Prote Prostx+2sin2x. : y = 8x cos 2x + 2 sin 2x (D-2i)(D+2i) (D-2i)(D+2i) = Operiz & + ISzeriz ((D-2i) (D+2i)) ((D-2i) (D+2i))  $= Q\{z e^{2ix} + z\} + 2\{z e^{2ix} + (i)\}$   $= Q\{z e^{2ix} + z\} + 2\{z e^{2ix} + (i)\}$   $= Q\{z e^{2ix} + z\} + 2\{z e^{2ix} + (i)\}$ = Ofterix x2 + ) flezix.x} = se sindre + zcordz. : Complete solt is cos2x {(A-x)} + sin2x { B+x2}. 2iii)  $\frac{x^2 d^2y}{dx^2} + \frac{3x dy}{dx} + \frac{y}{x} = \frac{x^2 + 1}{x}$ Put x=e. dy = dy dx = x dy.  $\frac{d^2y}{dt^2} = \frac{d}{dt} \begin{cases} x \, dy \\ dx \end{cases} \frac{dx}{dt} = x^2 \frac{d^2y}{dt} + x \frac{dy}{dx} \\ \frac{dx^2}{dt} = x^2 \frac{d^2y}{dt} + x \frac{dy}{dt} \\ \frac{dx^2}{dt} + x \frac{dy}{dt} \\ \frac{dy}{dt} = x \frac{dy}{dt} + x \frac{dy}{dt} \\ \frac{dy}{dt} = x \frac{dy}{dt} + x \frac{dy}{dt} \\ \frac{dy}{dt} + x \frac{dy}{d$ ie xdy dy x x dy dy - dy du dt dt dx 172 dt : Equer. becomes. zt.  $\frac{d^2y}{dt^2} + 2\frac{dy}{dt} + \frac{y}{t^2} = \frac{e^{\pm 1}}{e^{\pm 1}}.$ C.F.  $(D^2+2D+1)y=0.$  $\therefore (D+1)^{2} = 0 \qquad \therefore D = -1$