WITH 46 WORKSHEET. QDE? tevier Show that the transformation w = u'-n Appendix B: Formal Procedure $u' + \rho(t)u = q(t) un$ which looks nonlinear into 1 (inear egn. What are the new p(t) and g(t) in the linear egn? on the Special Committee and reason for the objection. Any party may request time limit for the special investigation will be agreed to by all parties, with the Chair What methods would you use on following? you may need one followed by another. 1) $u'' + 2t(u')^2 = 0$ 2. The Special Committee shall gather facts and statements from all interested to another unit of the control of th ii) the record, the Special Committee shall present $\mathcal{E}(\mathcal{U}) \mapsto \mathcal{U}(\mathcal{U}) = \mathcal{U}(\mathcal{U}) + \mathcal{U}(\mathcal{U})$ in case parties disagree on statements of facts in the report $\mathcal{U}(\mathcal{U}) \mapsto \mathcal{U}(\mathcal{U}) + \mathcal{U}(\mathcal{U})$ constitute a part of the report. As part of its report, the Special Committee shall recommend to COPE action that it deemst policy the unthe face unit part as to the review the final report of any Special. Committee and any final determination, and u = m + 2 3 m + late for a diguordi eeog tadi eeo yas to noitabasamasen

3. COPE shall review the report of the Special Committee, advice of AMS legal counsel (see note concerning consultation with legal counsel above), and all other relevant information presented to it and shall make a final decision regarding the disposition of the case, it shall take supplemental action as it deems appropriate (cf. Appendix A for examples) and shall communicate its decision and actions to the countries and to the Council.

ATH 46 WORKSHEET: SOLUTIONS.

Textien QDE, in 1 var. #2/07 Show that the transformation w = u!-n make the Bernoulli gn' u' + p(t)u = q(t) un mhill looks nonlinear into a linear egn. What are the new p(t) and q(t) in the linear egn? $W = U^{1-n}$ invert to get $u = W^{1-n}$ — (This gave people from le! Please get so $\frac{du}{dt} = \frac{du}{dt} \frac{du}{dt} = \frac{W^{n}}{W^{1-n}} W^{1-n}$ back onto gonralgela) so du = du du = Win W 6. IN ODE: Win w / + p(t) w in = q(t) (w in) = q(t) w in IF. by $\frac{1-n}{w^2 + n}$: $w' + \frac{(1-n)p(t)}{the'p(t)}w = \frac{(1-n)q(t)}{the'q(t)}$ What methods would you use on following? you may need one followed by another. V=U' then separate variables (1st order) $u'' + 2t(u')^2 = 0$ "" + 3u" + 2u = + Und. Coeffis. $u'' = 2u + (u)^3$ v = u' then G(u,u',u') = 0 they of u'' + u' = u + lnt t, use $G(u, v, v \neq v) = 0$ Variation of Parametes, by 1st-order ODE $\frac{u'}{u} = t^2 u^3 + \frac{1}{t}$ mult. by u, then it's a Bemoulli Egn. as above. lore elegantly, implicit differentiate to get $\frac{dw}{dt} = (1-n)u'u^{-n}$ (*) ivêde ODE by un: $\frac{u'u^{-n}}{1-n} + p(t)u^{1-n} = q(t)$ $\frac{1}{1-n}w', by(t)$ 1-n W', by (4)

Same rwalk.