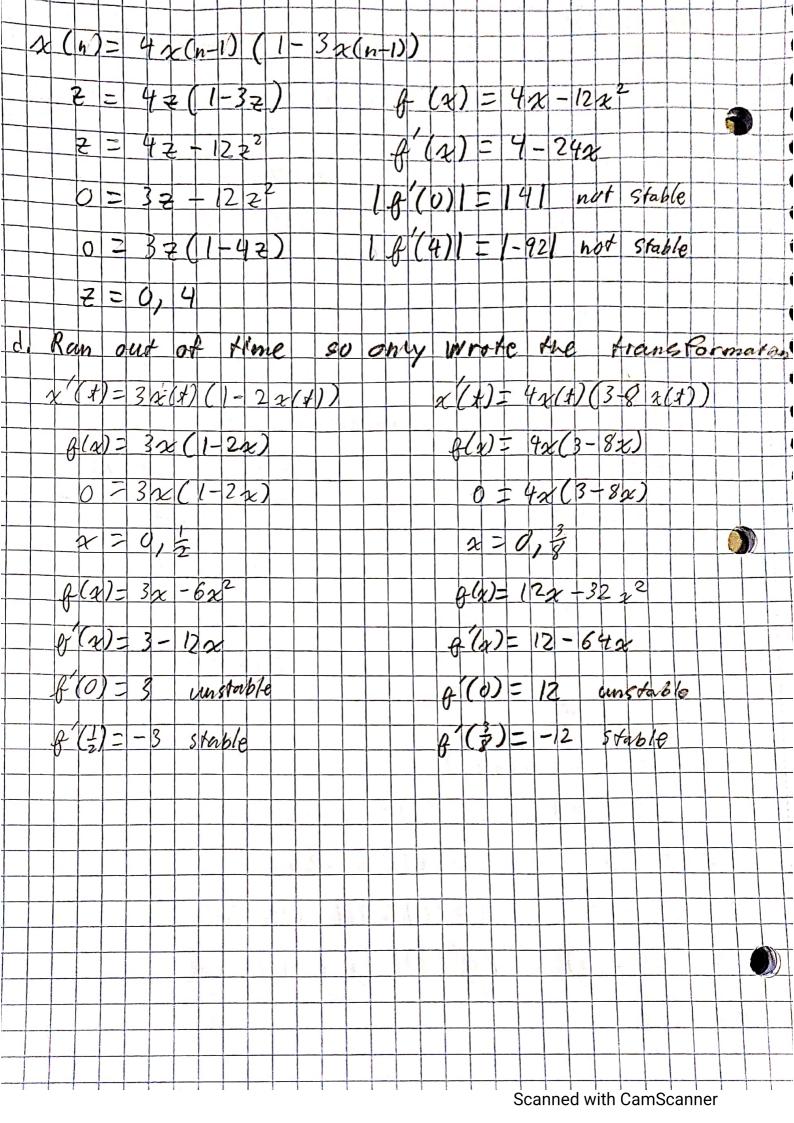
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```
> #John Hermitt hw24
   read "/John/Rutgers/Senior Fall/Dynamic Models/DMB.txt":
                                    First Written: Nov. 2021
This is DMB.txt, A Maple package to explore Dynamical models in Biology (both discrete and
    continuous)
accompanying the class Dynamical Models in Biology, Rutgers University. Taught by Dr. Z. (Doron
    Zeilbeger)
                        The most current version is available on WWW at:
                     http://sites.math.rutgers.edu/~zeilberg/tokhniot/DMB.txt.
                     Please report all bugs to: DoronZeil at gmail dot com.
                        For general help, and a list of the MAIN functions,
                 type "Help();". For specific help type "Help(procedure name);"
                       For a list of the supporting functions type: Help1();
                     For help with any of them type: Help(ProcedureName);
For a list of the functions that give examples of Discrete-time dynamical systems (some famous),
    type: HelpDDM();
                     For help with any of them type: Help(ProcedureName);
  For a list of the functions continuous-time dynamical systems (some famous) type: HelpCDM();
                     For help with any of them type: Help(ProcedureName);
                                                                                                 (1)
> #3 ii
   \#x''(t) = (mg + 2mx'(t)) divided by m
   \#x''(t) = -g + 2x'(t)
   \#IC: x'(0) = 0, x(0) = 100, g = 10
   ode = diff(x(t), t, t) = -10 + 2 \cdot diff(x(t), t);
  dsolve({ode, x(0) = 100, D(x)(0) = 0});
                                               false
          (in dsolve) not a system with respect to the unknowns {x(0)}
```

```
#i
evalf\left(Orb\left(\frac{(x+1)}{x+2}, x, 0, 1000, 1005\right)\right);
#ii
evalf\left(Orb\left(\frac{5}{2} \cdot x \cdot (1-x), x, 0.5, 1000, 1005\right)\right);
#iii
evalf\left(Orb\left(\frac{7}{2} \cdot x \cdot (1-x), x, 0.6, 1000, 1005\right)\right);
bad input
FAIL
bad input
FAIL
bad input
FAIL
bad input
FAIL
```

(2)