ECON 331

HOMEWORK ASSIGNMENT #2

The system of equations which represents the investor's problem is:

.75C
$$+ .3E = 50$$
 (invested in Canada)
.25C $+ .85U + .2E = 30$ (invested in U.S.)
.15U $+ .5E = 20$ (invested in England)

The coefficient matrix is:

- > with(linalg):
- > A:=matrix(3, 3, [.75, 0, .3, .25, .85, .2, 0, .15, .5]);

Warning, the protected names norm and trace have been redefined and unprotected

$$A := \begin{bmatrix} 0.75 & 0 & 0.3 \\ 0.25 & 0.85 & 0.2 \\ 0 & 0.15 & 0.5 \end{bmatrix}$$

The vector of constants is:

The amounts to be invested in the three companies, C, U and E (a vector, x) is found by premultiplying the inverse of A with d: