A CliffordBasic solution to an R4 linear system a x + b y = c, using wedge products to solve. Also includes mmacell output to embed the solution in the book as Mathematica input and output.

```
Solve: \mathbf{a} \times \mathbf{b} = \mathbf{c}
<< CliffordBasic`;
$SetSignature = {4, 0};
Import[
 "https://raw.githubusercontent.com/jkuczm/MathematicaCellsToTeX/master/NoInstall.
(*Import[
  "https://raw.githubusercontent.com/jkuczm/MathematicaSyntaxAnnotations/master/
     BootstrapInstall.m"]
 Import["https://raw.githubusercontent.com/jkuczm/MathematicaCellsToTeX/master/
     BootstrapInstall.m"]*)
ClearAll[a, b, c, iab, aWedgeB, cWedgeB, aWedgeC, x, y]
a = e[1] + e[2];
b = e[1] + e[4];
c = e[1] + 2e[2] - e[4];
aWedgeB = OuterProduct[a, b];
cWedgeB = OuterProduct[c, b];
aWedgeC = OuterProduct[a, c];
(* 1/aWedgeB *)
iab = aWedgeB / GeometricProduct[aWedgeB, aWedgeB];
x = GeometricProduct[iab, cWedgeB];
y = GeometricProduct[iab, aWedgeC];
\{\{\text{"a }_b = \text{", aWedgeB}\}, \{\text{"c }_b = \text{", cWedgeB}\}, \}
  {\text{"a }_{x} c = \text{", aWedgeC}}, {\text{"x = ", x}}, {\text{"y = ", y}}
 } // Grid
a b = -e[1, 2] + e[1, 4] + e[2, 4]
c_{h} b = -2e[1, 2] + 2e[1, 4] + 2e[2, 4]
a \ c = e[1, 2] - e[1, 4] - e[2, 4]
  X =
                          2
                         - 1
```

Generate cells

y =

junk. first experimentation with mmaCell