```
Needs["VectorAnalysis`"]

A = {{1, 0, 0}, {0, 0, 1}, {1 / 2, 1 / 2, 1 / 2}};

B = Inverse[Transpose[A]]
```

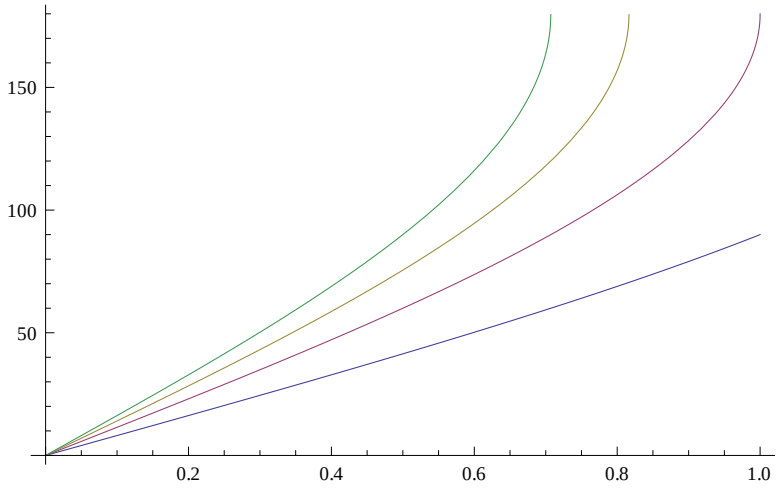
$$\{\{1, -1, 0\}, \{0, -1, 1\}, \{0, 2, 0\}\}$$

```
b = Sort[Transpose[
      Tally[Flatten[Table[Table[Table[Norm[h B[[1]] + k B[[2]] + l B[[3]]], {h, -5, 5}],
          {k, -5, 5}], {l, -5, 5}], 3]][[1]], #1 < #2 &][[2 ;; 5]]]
```

$$\left\{\sqrt{2}, 2, \sqrt{6}, 2\sqrt{2}\right\}$$

```
T = 2 ArcSin[x / 2 * b] / Pi * 180;

Plot[{T}, {x, 0, 1}]
```




```
Solve[T[[1]] == 28.8, x]
T /. %
```

$$\{\{x \to 0.351701\}\}$$

$$\{\{28.8, 41.1827, 51.0295, 59.6536\}\}$$