

```
Needs["VectorAnalysis`"]
```

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

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

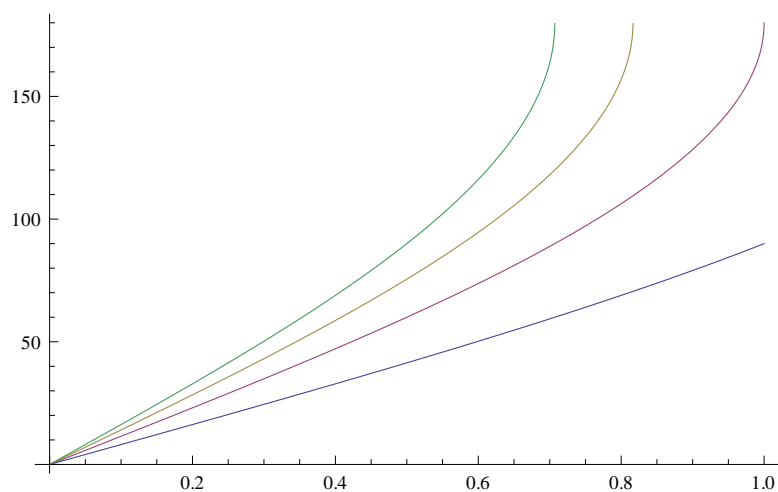
```
{{1, -1, 0}, {0, -1, 1}, {0, 2, 0}}
```

```
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]]
```

```
{ $\sqrt{2}$ , 2,  $\sqrt{6}$ , 2  $\sqrt{2}$ }
```

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

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



```
Solve[T[[1]] == 28.8, x]
```

```
T /. %
```

```
{{x -> 0.351701}}
```

```
{{28.8, 41.1827, 51.0295, 59.6536}}
```