

Effects of Cold Water

```
>> M=[1 68 2;1 65 5;1 70 1;1 62 10;1 60 9;1 55 13;1 58 10]
```

```
M =
```

```
1 68 2
1 65 5
1 70 1
1 62 10
1 60 9
1 55 13
1 58 10
```

```
>> rref(M)
```

```
ans =
```

```
1 0 0
0 1 0
0 0 1
0 0 0
0 0 0
0 0 0
0 0 0
```

← inconsistent system

```
>> A=M(1:7,1:2)
```

```
A =
```

```
1 68
1 65
1 70
1 62
1 60
1 55
1 58
```

```
>> Y=M(1:7,3)
```

```
Y =
```

```
2
5
1
10
9
13
10
```

```
>> S=A'*A
```

```
S =
```

```
7 438
438 27582
```

```
>> W=A'*Y
```

```
W =
```

```
50
2986
```

```
>> rref([S W])
```

```
ans =
```

```
1.0000 0 57.9122
0 1.0000 -0.8114
```

$$Y = 57.9122 - 0.8114X$$