



```
1 octave] ex=[1; 0]; ey=[0; 1];
```

```
octave] b=[0.2; 0.4]; I=[ex ey]; I*b
```

```
ans =
```

```
0.20000
```

```
0.40000
```

```
octave] th=pi/6; c=cos(th); s=sin(th);
```

```
octave] tvec=[c; s]; nvec=[-s; c];
```

```
octave] A=[tvec nvec];
```

```
octave] x=A\b
```

```
x =
```

```
0.37321
```

```
0.24641
```

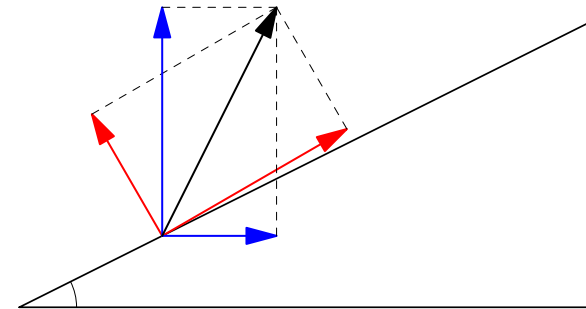
```
octave] [x(1)*tvec x(2)*nvec]
```

```
ans =
```

```
0.32321 -0.12321
```

```
0.18660 0.21340
```

```
octave]
```



**Figure 1.** Alternative decompositions of force on inclined plane.