```
P1:1; P2:t; P3:1−t;
```

**Warning: Can set maxima's working directory but cannot change it during the maxi**

```
1
t
1−t
'integrate((P1·P2),t,−1,1)/(sqrt('integrate((P1·P1),t,−1,1))·sqrt('integrate((P2·P2),t,−1,1)));
```

$$\frac{\int_{-1}^{1} t\,dt}{\sqrt{2}\sqrt{\int_{-1}^{1} t^2\,dt}}$$

```
ev(%,integrate);
0
acos(%),numer;
1.570796326794897
'integrate((P1·P3),t,−1,1)/(sqrt('integrate((P1·P1),t,−1,1))·sqrt('integrate((P3·P3),t,−1,1)));
```

$$\frac{\int_{-1}^{1} 1-t\,dt}{\sqrt{2}\sqrt{\int_{-1}^{1} (1-t)^2\,dt}}$$

```
ev(%,integrate);
```

$$\frac{\sqrt{3}}{2}$$

```
acos(%),numer;
0.5235987755982989
'integrate((P3·P2),t,−1,1)/(sqrt('integrate((P3·P3),t,−1,1))·sqrt('integrate((P2·P2),t,−1,1)));
```

$$\frac{\int_{-1}^{1} (1-t)\,t\,dt}{\sqrt{\int_{-1}^{1} (1-t)^2\,dt}\sqrt{\int_{-1}^{1} t^2\,dt}}$$

```
ev(%,integrate);
```

$$-\frac{1}{2}$$

```
acos(%),numer;
2.094395102393196
'integrate((P1·P2),t,0,1)/(sqrt('integrate((P1·P1),t,0,1))·sqrt('integrate((P2·P2),t,0,1)));
```

$$\frac{\int_0^1 t\,dt}{\sqrt{\int_0^1 t^2\,dt}}$$

```
ev(%,integrate);
```

$$\frac{\sqrt{3}}{2}$$

```
acos(%),numer;
```

$$0.5235987755982989$$

```
'integrate((P1·P3),t,0,1)/(sqrt('integrate((P1·P1),t,0,1))·sqrt('integrate((P3·P3),t,0,1)));
```

$$\frac{\int_0^1 1-t\,dt}{\sqrt{\int_0^1 (1-t)^2\,dt}}$$

```
ev(%,integrate);
```

$$\frac{\sqrt{3}}{2}$$

```
acos(%),numer;
```

$$0.5235987755982989$$

```
'integrate((P3·P2),t,0,1)/(sqrt('integrate((P3·P3),t,0,1))·sqrt('integrate((P2·P2),t,0,1)));
```

$$\frac{\int_0^1 (1-t)\,t\,dt}{\sqrt{\int_0^1 (1-t)^2\,dt}\,\sqrt{\int_0^1 t^2\,dt}}$$

```
ev(%,integrate);
```

$$\frac{1}{2}$$

```
acos(%),numer;
```

$$1.047197551196598$$