$\upsilon := 350 \qquad \nu := 3000$

$\lambda := \frac{\upsilon}{\nu}$

$\omega := 2 \cdot \pi \cdot \nu \qquad k := 2 \cdot \frac{\pi}{\lambda}$

$P01 := 1 \qquad P02 := 0.5 \qquad r1 := 0.1 \qquad r2 := 0.1 \qquad f01 := 45 \qquad f02 := 45$

$t := 0, 0.0001 .. 1$

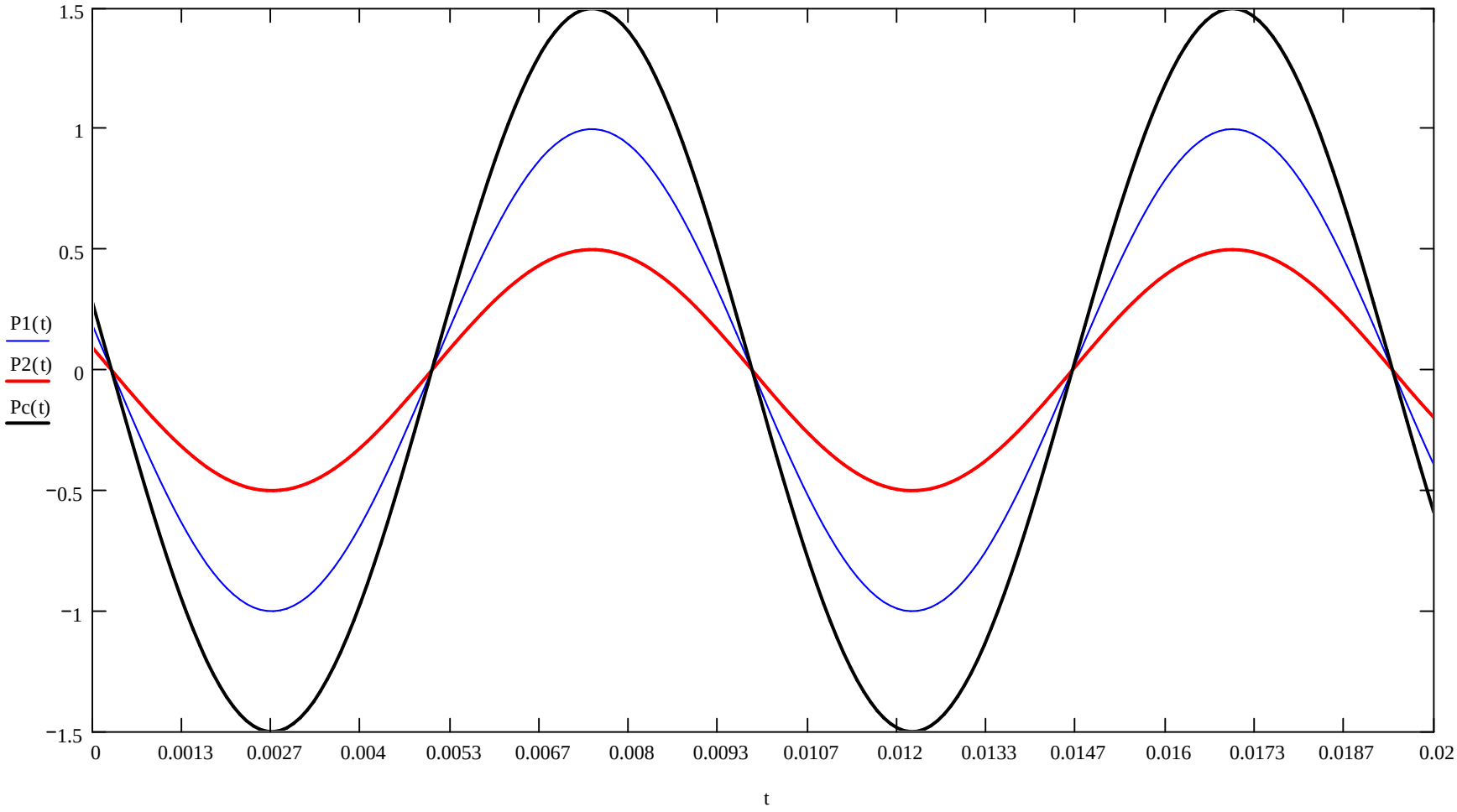
$y1(t) := (\omega \cdot t - k \cdot r1 + f01) \cdot 2 \cdot \frac{\pi}{180}$

$y2(t) := (\omega \cdot t - k \cdot r2 + f02) \cdot 2 \cdot \frac{\pi}{180}$

$P1(t) := P01 \cdot \cos(y1(t))$

$P2(t) := P02 \cdot \cos(y2(t))$

$Pc(t) := P1(t) + P2(t)$


1.5
1
0.5
0
−0.5
−1
−1.5
P1(t)
P2(t)
Pc(t)
0
0.0013
0.0027
0.004
0.0053
0.0067
0.008
0.0093
0.0107
0.012
0.0133
0.0147
0.016
0.0173
0.0187
0.02
t

$P03 := 1 \qquad P04 := 0.5 \qquad r3 := 0.1 \qquad r4 := 0.1 \qquad f03 := 45 \qquad f04 := 115$

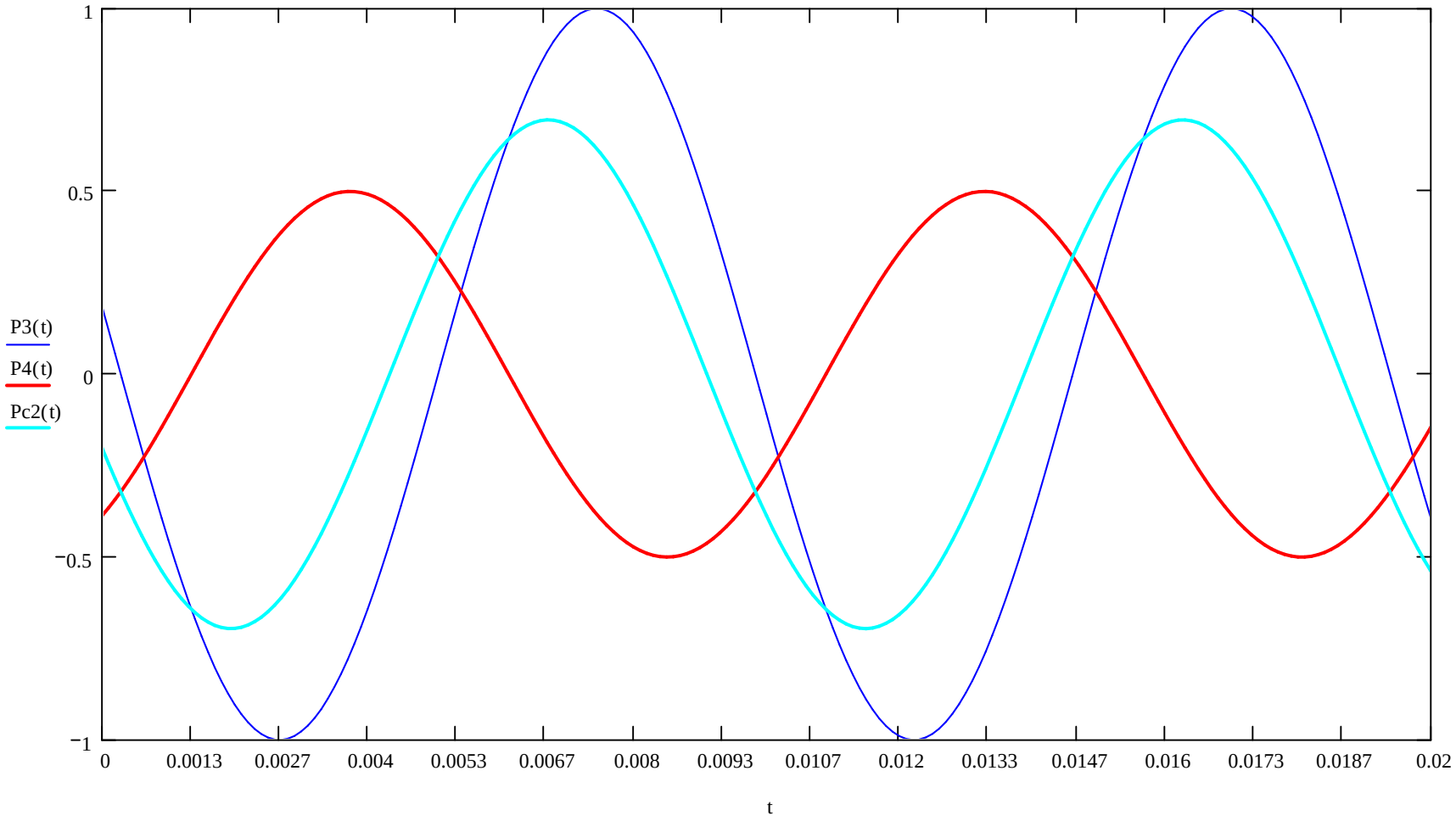
$$y3(t) := (\omega \cdot t - k \cdot r3 + f03) \cdot 2 \cdot \frac{\pi}{180}$$

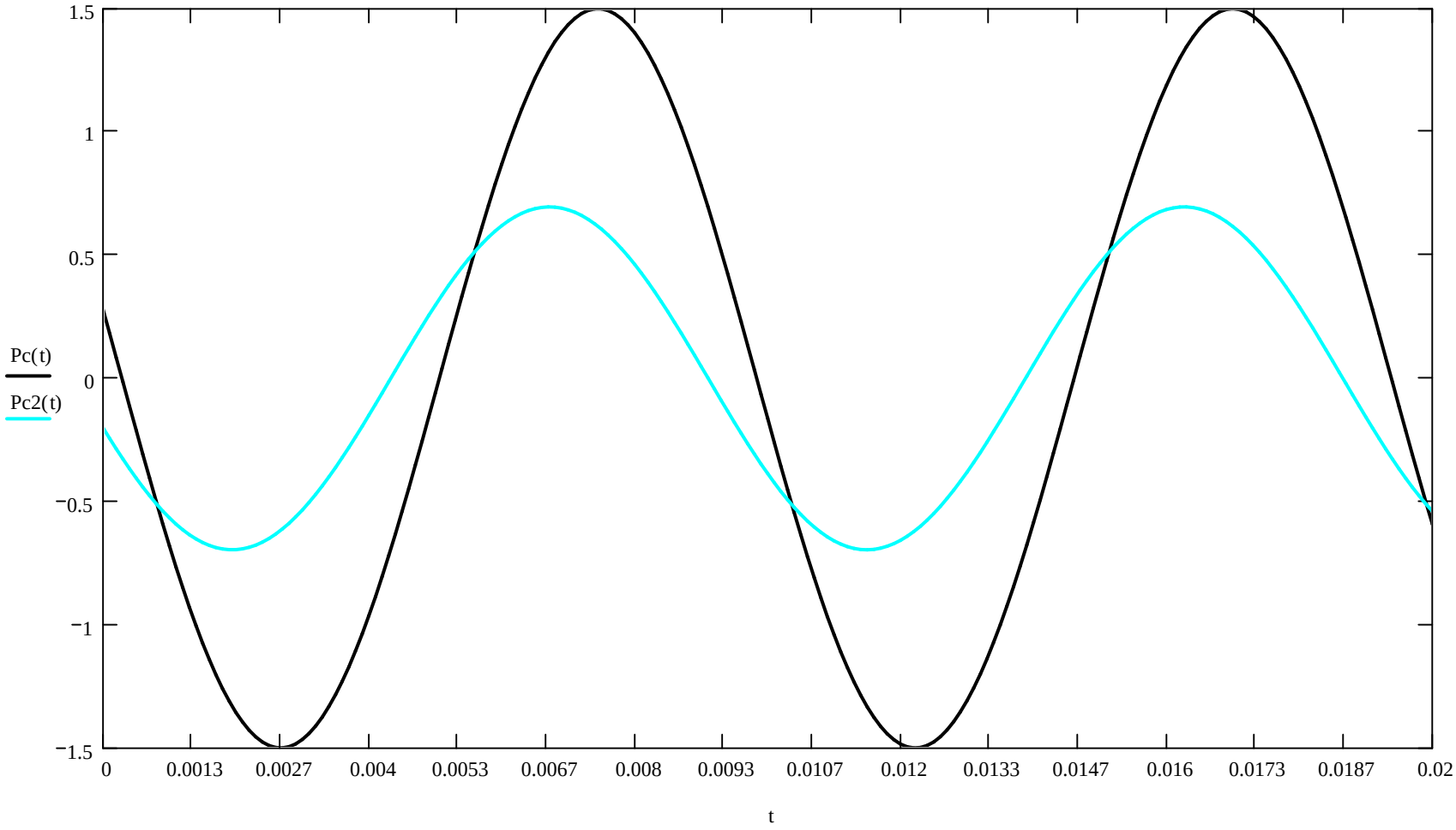
$$y4(t) := (\omega \cdot t - k \cdot r4 + f04) \cdot 2 \cdot \frac{\pi}{180}$$

$$P3(t) := P03 \cdot \cos(y3(t))$$

$$P4(t) := P04 \cdot \cos(y4(t))$$

$$Pc2(t) := P3(t) + P4(t)$$


1
0.5
0
−0.5
−1
P3(t)
P4(t)
Pc2(t)
0
0.0013
0.0027
0.004
0.0053
0.0067
0.008
0.0093
0.0107
0.012
0.0133
0.0147
0.016
0.0173
0.0187
0.02
t


1.5
1
0.5
0
−0.5
−1
−1.5
Pc(t)
Pc2(t)
0
0.0013
0.0027
0.004
0.0053
0.0067
0.008
0.0093
0.0107
0.012
0.0133
0.0147
0.016
0.0173
0.0187
0.02
t