

**Lösung AUFGABE 14 im 2D-Grafik-Menü  
(Parameterdarstellungen mit individuellen Parameterbereichen)**

▼ Edit Typ GMem ♦

Blatt1 | Blatt2 | Blatt3 | Blatt4 | Blatt5

$xt1 = \text{piecewise} \left\{ \begin{array}{l} 0 \leq t < 2 \cdot \pi, \sqrt{2} \cdot 11 \cdot \cos(t), \frac{1}{\theta} \end{array} \right\}$

$yt1 = \text{piecewise} \left\{ \begin{array}{l} 0 \leq t < 2 \cdot \pi, \sqrt{2} \cdot 11 \cdot \sin(t), \frac{1}{\theta} \end{array} \right\}$

$xt2 = \text{piecewise} \left\{ \begin{array}{l} -\frac{\pi}{2} \leq t \leq \frac{\pi}{2}, 11 + 11 \cdot \cos(t), \frac{1}{\theta} \end{array} \right\}$

$yt2 = \text{piecewise} \left\{ \begin{array}{l} -\frac{\pi}{2} \leq t \leq \frac{\pi}{2}, 11 \cdot \sin(t), \frac{1}{\theta} \end{array} \right\}$

$xt3 = \text{piecewise} \left\{ \begin{array}{l} 0 \leq t \leq \pi, 11 \cdot \cos(t), \frac{1}{\theta} \end{array} \right\}$

$yt3 = \text{piecewise} \left\{ \begin{array}{l} 0 \leq t \leq \pi, 11 + 11 \cdot \sin(t), \frac{1}{\theta} \end{array} \right\}$

$xt4 = \text{piecewise} \left\{ \begin{array}{l} \frac{\pi}{2} \leq t \leq \frac{3 \cdot \pi}{2}, -11 + 11 \cdot \cos(t), \frac{1}{\theta} \end{array} \right\}$

$yt4 = \text{piecewise} \left\{ \begin{array}{l} \frac{\pi}{2} \leq t \leq \frac{3 \cdot \pi}{2}, 11 \cdot \sin(t), \frac{1}{\theta} \end{array} \right\}$

$xt5 = \text{piecewise} \left\{ \begin{array}{l} -\pi \leq t \leq 0, 11 \cdot \cos(t), \frac{1}{\theta} \end{array} \right\}$

$yt5 = \text{piecewise} \left\{ \begin{array}{l} -\pi \leq t \leq 0, -11 + 11 \cdot \sin(t), \frac{1}{\theta} \end{array} \right\}$

Bog Real

▼ Edit Typ GMem ♦

Blatt1 | Blatt2 | Blatt3 | Blatt4 | Blatt5

$xt6 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, 11, \frac{1}{\theta} \end{array} \right\}$

$yt6 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, t, \frac{1}{\theta} \end{array} \right\}$

$xt7 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, t, \frac{1}{\theta} \end{array} \right\}$

$yt7 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, 11, \frac{1}{\theta} \end{array} \right\}$

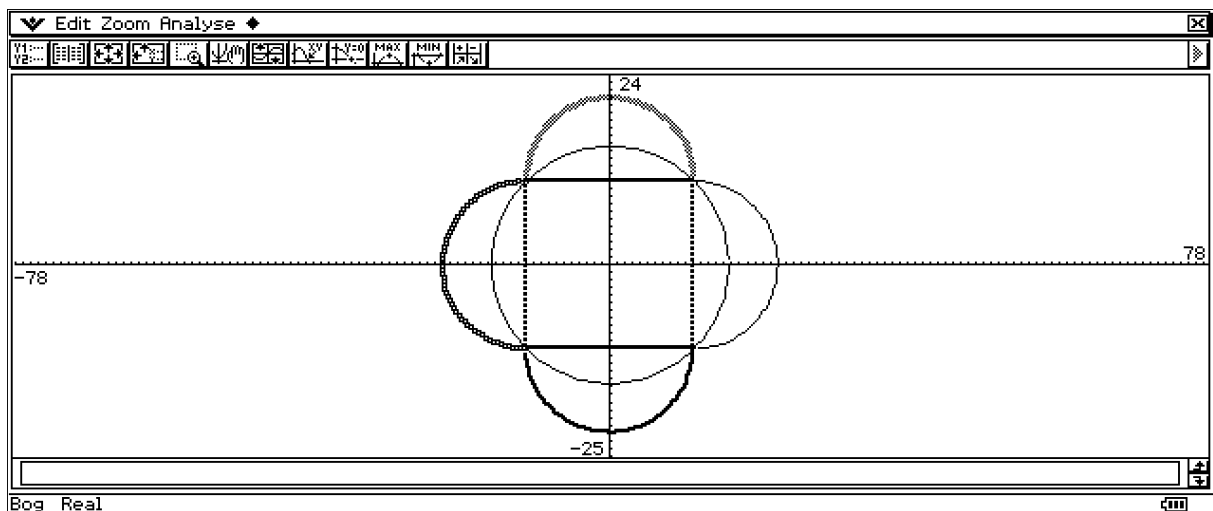
$xt8 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, -11, \frac{1}{\theta} \end{array} \right\}$

$yt8 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, t, \frac{1}{\theta} \end{array} \right\}$

$xt9 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, t, \frac{1}{\theta} \end{array} \right\}$

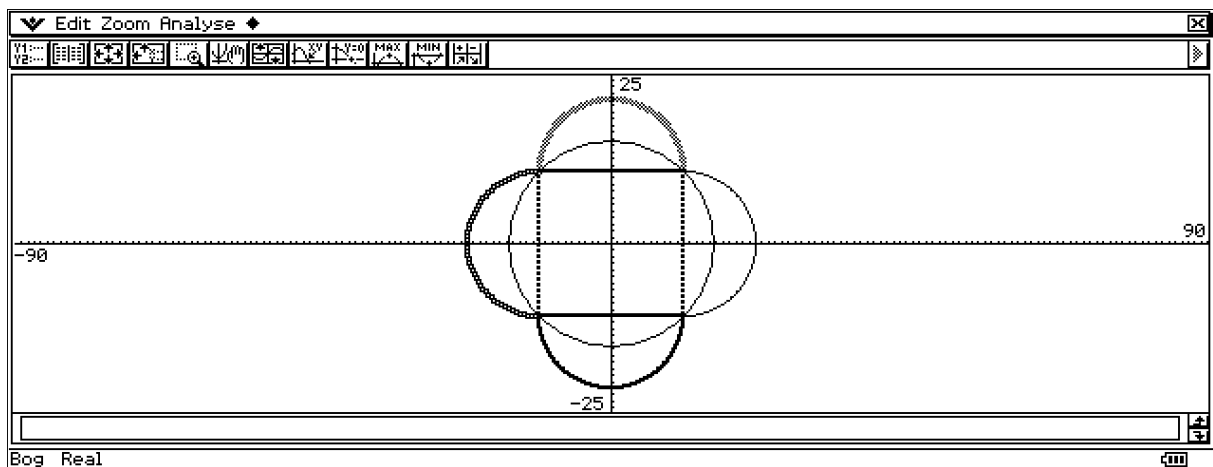
$yt9 = \text{piecewise} \left\{ \begin{array}{l} -11 \leq t \leq 11, -11, \frac{1}{\theta} \end{array} \right\}$

Bog Real



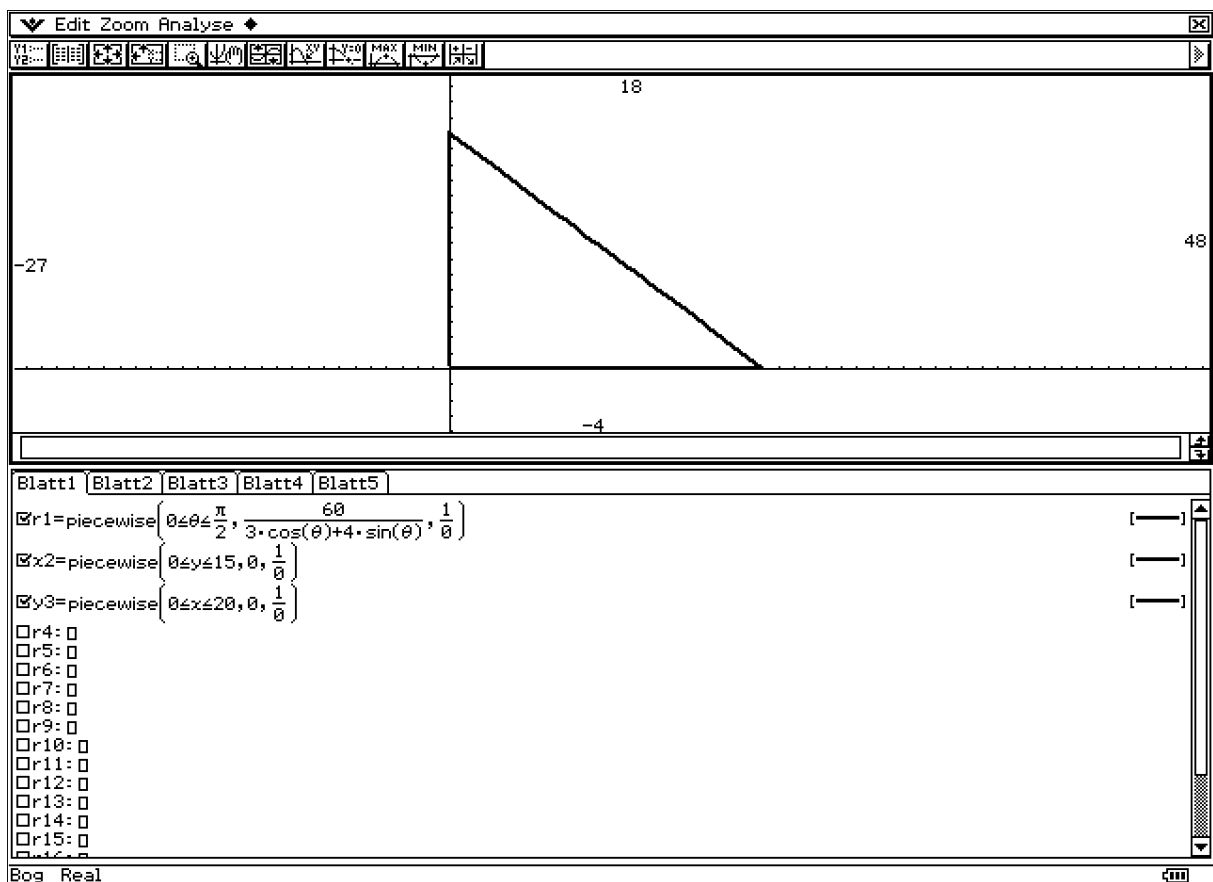
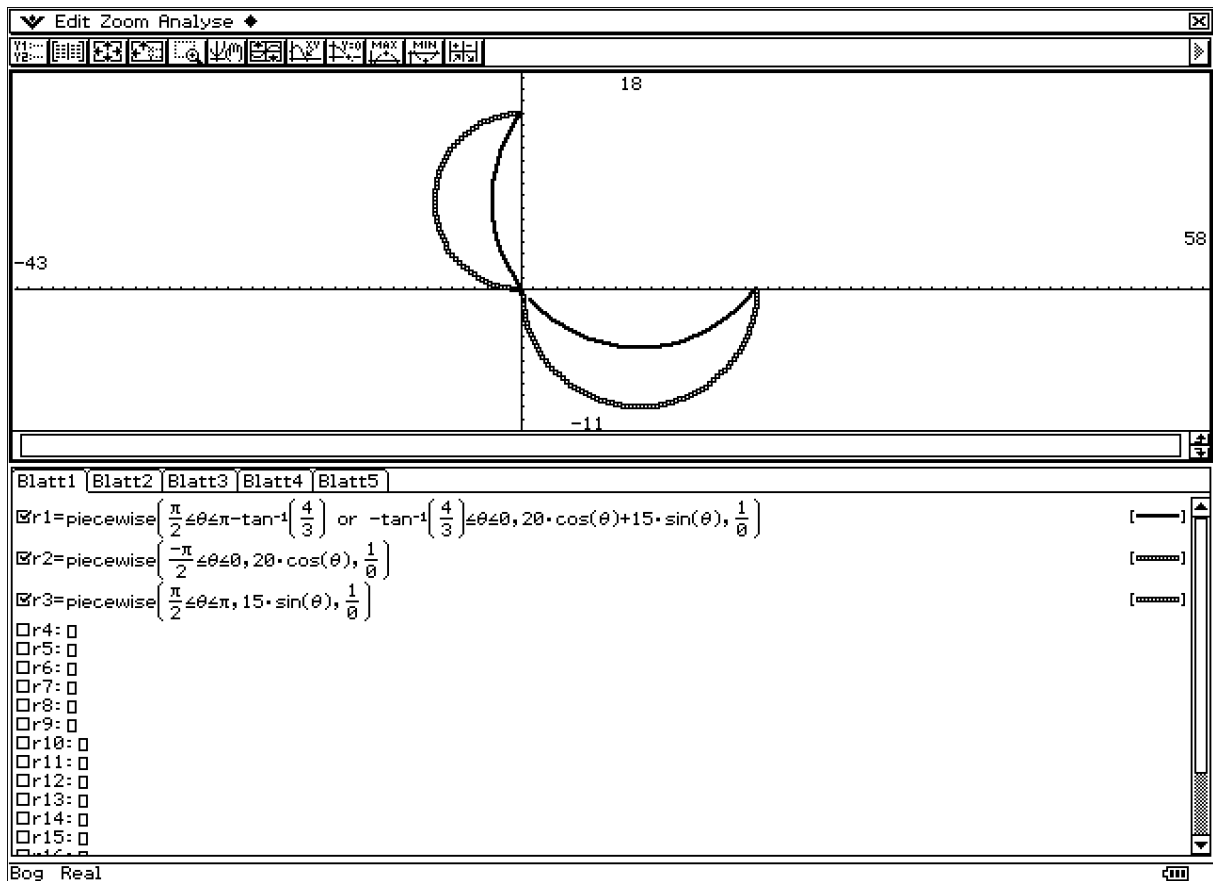
(Parameterdarstellungen mit einem gemeinsamen Parameterbereich)

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▼ Edit Typ GMem ◀
x:=
Blatt1 | Blatt2 | Blatt3 | Blatt4 | Blatt5
☑ xt1=√2·11·cos(t)
yt1=√2·11·sin(t)
☑ xt2=11+11·cos(t/2)
yt2=11·sin(t/2)
☑ xt3=11·cos(t+π/2)
yt3=11+11·sin(t+π/2)
☑ xt4=-11+11·cos(t+2·π/2)
yt4=11·sin(t+2·π/2)
☑ xt5=11·cos(t-π/2)
yt5=-11+11·sin(t-π/2)
xt6=11
☑ yt6=11·t/π
☑ xt7=11·t/π
yt7=11
xt8=-11
☑ yt8=11·t/π
☑ xt9=11·t/π
yt9=-11
Bog Real
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Lösung AUFGABE 17 im 2D-Grafik-Menü  
Polarkoordinatendarstellungen zu AUFGABE 15



Lösung AUFGABE 18 im 2D-Grafik-Menü

Parameterdarstellungen zu AUFGABE 15 mit gemeinsamen Parameterbereich

▼ Edit Typ GMem

Blatt1 | Blatt2 | Blatt3 | Blatt4 | Blatt5

$xt4=10+12.5 \cdot \cos\left(t+\pi-\tan^{-1}\left(\frac{3}{4}\right)\right)$

$yt4=7.5+12.5 \cdot \sin\left(t+\pi-\tan^{-1}\left(\frac{3}{4}\right)\right)$

$xt5=10+10 \cdot \cos(-t)$

$yt5=10 \cdot \sin(-t)$

$xt6=7.5 \cdot \cos\left(t+\frac{\pi}{2}\right)$

$yt6=7.5+7.5 \cdot \sin\left(t+\frac{\pi}{2}\right)$

$xt7=\frac{20 \cdot t}{\pi}$

$yt7=0$

$xt8=0$

$yt8=\frac{15 \cdot t}{\pi}$

$xt9=\frac{20 \cdot t}{\pi}$

$yt9=\frac{-3}{4} \cdot \frac{20 \cdot t}{\pi} + 15$

Bog Real

