

Benutzer:
#1: CaseMode := Sensitive

Datum: 15.02.2013

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Benutzer:
#2: InputMode := Word

Benutzer:
#3: $\text{Sur}(r, h) := 2 \cdot \pi \cdot r^2 + \pi \cdot r \cdot \sqrt{(r^2 + h^2)}$

Benutzer:
#4: $\text{Vol}(r, h) := \frac{2}{3} \cdot \pi \cdot r^3 + \frac{1}{3} \cdot \pi \cdot r^2 \cdot h$

Benutzer:
#5: $V \in \text{Real}(0, \infty)$

Benutzer:
#6: $r \in \text{Real}(0, (3 \cdot V / (2 \cdot \pi))^{1/3})$

Benutzer=Simp(Benutzer):

#7: $\text{SOLVE}(\text{Vol}(r, h) = V, h) = \left(h = \frac{3 \cdot V - 2 \cdot \pi \cdot r^3}{\pi \cdot r^2} \right)$

Benutzer:
#8: $S(r) := \text{Sur}\left(r, \frac{3 \cdot V - 2 \cdot \pi \cdot r^3}{\pi \cdot r^2}\right)$

Benutzer=Simp(Benutzer):

#9: $S(r) = \frac{\sqrt{(9 \cdot V^2 - 12 \cdot \pi \cdot V \cdot r^3 + 5 \cdot \pi^2 \cdot r^6)}}{r} + 2 \cdot \pi \cdot r^2$

Löse(Benutzer, r):
#10: $\text{SOLVE}\left(\frac{d}{dr} S(r) = 0, r\right)$

Simp(#10):

#11: $r =$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{1}{3} \right)}{20 \cdot \pi} + \left(\frac{\pi}{3} + 107 \right) - \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3}}{1/3}$$

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$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3} \right)^{1/3}}{20 \cdot \pi} \sim^4$$

$$\frac{\left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3}}{v \cdot r =}$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3} \right)^{1/3}}{20 \cdot \pi} \sim$$

$$\frac{\left(\frac{\pi}{3} + 107 \right) - \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3}}{+}$$

$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3} \right)^{1/3}}{20 \cdot \pi} \sim$$

$$\frac{\left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3}}{v \cdot r = -}$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3} \right)^{1/3}}{20 \cdot \pi} \sim$$

$$\frac{\left(\frac{\pi}{3} + 107 \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} - 3 \cdot \sqrt{3}}{-}$$

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$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) + \frac{\pi}{3}}}{20 \cdot \pi^{1/3}}$$

$$\left. - \right) + 107 \left. \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) - 3 \cdot \sqrt{3}}^{1/3} \quad v \ r = -$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) + \frac{\pi}{3}}}{20 \cdot \pi^{1/3}}$$

$$\left. \frac{\pi}{3} \right) + 107 \left. \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) - 3 \cdot \sqrt{3}}^{1/3} \quad +$$

$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) + \frac{\pi}{3}}}{20 \cdot \pi^{1/3}}$$

$$\left. - \right) + 107 \left. \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) - 3 \cdot \sqrt{3}}^{1/3} \quad v \ r = -$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) + \frac{\pi}{3}}}{20 \cdot \pi^{1/3}}$$

$$\left. \right) + 107 \left. \right) - \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right) - 3 \cdot \sqrt{3}}^{1/3} \quad -$$

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$$30^{2/3} \cdot i \cdot V^{1/3} \cdot \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}$$

$$20 \cdot \pi^{1/3}$$

$$+ 107 - \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} - 3 \cdot \sqrt{3}$$

v r = -

$$30000^{1/6} \cdot V^{1/3} \cdot \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}$$

$$20 \cdot \pi^{1/3}$$

$$+ 107 - \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} - 3 \cdot \sqrt{3}$$

+

$$30^{2/3} \cdot i \cdot V^{1/3} \cdot \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}$$

$$20 \cdot \pi^{1/3}$$

$$+ 107 - \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} - 3 \cdot \sqrt{3}$$

v r =

$$30000^{1/6} \cdot V^{1/3} \cdot \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}$$

$$20 \cdot \pi^{1/3}$$

$$+ 107 + \sqrt{\left(107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)\right)} + 3 \cdot \sqrt{3}$$

-

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$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}}{20 \cdot \pi^{1/3}} \sim^4$$

$$+ 107 \left) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3} \quad v \ r =$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}}{20 \cdot \pi^{1/3}} \sim$$

$$\left) + 107 \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3} +$$

$$\frac{30^{2/3} \cdot i \cdot V^{1/3} \cdot \left(\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right) + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3} + \frac{\pi}{3}\right)}}{20 \cdot \pi^{1/3}} \sim$$

$$+ 107 \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3} \quad v \ r = -$$

$$\frac{28125^{1/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} - \frac{15^{5/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} +$$

$$i \cdot \left(\frac{28125^{1/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} - \frac{15^{5/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} \right) \quad v \ r = -$$

$$\frac{28125^{1/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} - \frac{15^{5/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + i \cdot \left(\frac{15^{5/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} - \frac{28125^{1/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} \right) \vee r = -$$

$$\frac{28125^{1/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + \frac{15^{5/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} - i \cdot \left(\frac{15^{5/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + \frac{28125^{1/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} \right) \vee r = -$$

$$\frac{28125^{1/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + \frac{15^{5/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + i \cdot \left(\frac{15^{5/6} \cdot V^{1/3} \cdot \cos\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} + \frac{28125^{1/6} \cdot V^{1/3} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{1}{2}\right)}{3}\right)}{10 \cdot \pi^{1/3}} \right) \vee r =$$

$$\frac{28125^{1/6} \cdot e^{-i \cdot \text{ATAN}(1/2)/3} \cdot V^{1/3}}{5 \cdot \pi^{1/3}} \vee r = \frac{28125^{1/6} \cdot e^{i \cdot \text{ATAN}(1/2)/3} \cdot V^{1/3}}{5 \cdot \pi^{1/3}} \vee r = -$$

$$\frac{30000^{1/6} \cdot V^{1/3} \cdot \left(-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} \right)}{10 \cdot \pi^{1/3}} + \dots$$

Datei: s $\left. \left. \left. \left. \frac{\pi}{3} + 107 \right) - \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3} \right\} \right\} \right\} \right\} \sqrt[3]{r} =$

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$$30000^{1/6} \cdot \sqrt[3]{-\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3}} \sqrt[3]{10 \cdot \pi}$$

$$\left. \left. \left. \left. \frac{\pi}{3} + 107 \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} - 3 \cdot \sqrt{3} \right)^{1/3} \right\} \right\} \right\} \right\} \sqrt[3]{r} =$$

$$30000^{1/6} \cdot \sqrt[3]{\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3}} \sqrt[3]{10 \cdot \pi}$$

$$\left. \left. \left. \left. + 107 \right) - \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} - 3 \cdot \sqrt{3} \right)^{1/3} \right\} \right\} \right\} \right\} \sqrt[3]{r} =$$

$$30000^{1/6} \cdot \sqrt[3]{\sqrt{107 - 10 \cdot \sqrt{61} \cdot \cos\left(\frac{\text{ACOT}\left(-\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \sqrt{10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + \frac{\pi}{3}} \sqrt[3]{10 \cdot \pi}$$

$$\left. \left. \left. \left. + 107 \right) + \sqrt{107 - 10 \cdot \sqrt{61} \cdot \sin\left(\frac{\text{ATAN}\left(\frac{253 \cdot \sqrt{503}}{9054}\right)}{3}\right)} + 3 \cdot \sqrt{3} \right)^{1/3} \right\} \right\} \right\} \right\}$$

Approx(#11):

#12: $r = 0.2440203969 - 0.4226557255 \cdot i \sqrt[3]{r} = 0.2440203969 + 0.4226557255 \cdot i \sqrt[3]{r} = -0.3367427487 - 0.5832555499 \cdot i \sqrt[3]{r} = -0.3367427487 + 0.5832555499 \cdot i \sqrt[3]{r} = 0.7440829484 - 0.1159218484 \cdot i \sqrt[3]{r} = 0.7440829484 + 0.1159218484 \cdot i \sqrt[3]{r} = -0.4226151129 - 0.7319908476 \cdot i \sqrt[3]{r} = -0.4226151129 + 0.7319908476 \cdot i \sqrt[3]{r} = -0.4724327398 - 0.5864338116 \cdot i \sqrt[3]{r} = -0.4724327398 + 0.5864338116 \cdot i \sqrt[3]{r} = 0.6234894693 - 1.079915438 \cdot i \sqrt[3]{r} = 0.6234894693 + 1.079915438 \cdot i \sqrt[3]{r} = -0.2716502086 - 0.7023556600 \cdot i \sqrt[3]{r} = -0.2716502086 + 0.7023556600 \cdot i \sqrt[3]{r} = -0.4880407938 \sqrt[3]{r} = 0.8452302259 \sqrt[3]{r} = 0.6734854975 \sqrt[3]{r} = -1.246978938$