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a) $U = 2 \cdot \pi \cdot r \approx 6,28 \text{ m}$
 $A = \pi r^2 \approx 3,14 \text{ m}^2$

b) $r = \frac{U}{2\pi} \approx \dots \text{ TR}$

$A = \pi r^2 = \frac{U^2}{4\pi} \approx \dots \text{ TR}$

c) $r = \sqrt{\frac{A}{\pi}} \approx \dots \text{ TR}$

$U = 2\pi r = 2\pi \sqrt{\frac{A}{\pi}} = 2\sqrt{\frac{\pi^2 A}{\pi}} = 2\sqrt{\pi A}$
 $= \sqrt{\pi \cdot 4 \cdot A} \approx \dots \text{ TR}$

824



$d = 2r \Rightarrow r = \frac{d}{2} = \frac{a\sqrt{2}}{2} = \rho \cdot \sqrt{2}$
 $d = a\sqrt{2}$
 $\rho = \frac{a}{2}$

Vom Inkreis $A = \pi \rho^2 = \frac{\pi}{4} a^2$ $U = 2\pi \rho = \pi \cdot a$

Vom Umkreis $A = \pi r^2 = \pi \cdot \frac{a^2 \cdot 2}{4} = \frac{1}{2} \pi a^2$

$U = 2\pi r = \pi \cdot a \cdot \sqrt{2}$

1) $\frac{\pi \rho^2}{a^2} \cdot 100\% = \frac{\pi}{4} \cdot 100\%$

2) $\frac{a^2}{\pi r^2} \cdot 100\% = \frac{a^2}{\frac{1}{2} \pi a^2} \cdot 100\% = \frac{2}{\pi} \cdot 100\%$

3) $\frac{\pi \rho^2}{\pi r^2} \cdot 100\% = \frac{\frac{\pi}{4} \cdot a^2}{\frac{1}{2} \pi a^2} \cdot 100\% = 50\%$

825

(x=mal) a)

b)

1) x2

x4

2) x3

x9

3) :2

:4

4) :3

:9

5) xk

xk²