KORREKTURVORLAGE 4E W7/8

835 (b) $A = \frac{1}{2}\cdot\pi(2a)^2 - \pi a^2$

$= 2\pi a^2 - \pi a^2 = \pi a^2$

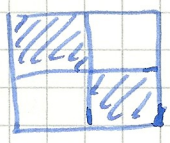
$U = \frac{1}{2}\cdot\pi\cdot 4a + \pi\cdot 2a = 4\pi a$

(c) $A = \frac{1}{4}\cdot\pi(2a)^2 - \frac{1}{2}\pi a^2 = \frac{1}{2}\pi a^2$

$U = 2a + \frac{1}{4}\cdot 2\pi\cdot 2a + \pi\cdot 2a$

$= 2a + 3\pi a$

836 (b) A : nach Verschieben



$A = \frac{1}{2}a^2$

$U : \pi\cdot a$

(c) $A = \frac{1}{2}\cdot\pi\left(\frac{2d_1+d_2}{2}\right)^2 - \pi\left(\frac{d_1}{2}\right)^2$

$+ \frac{1}{2}\pi\left(\frac{d_2}{2}\right)^2$

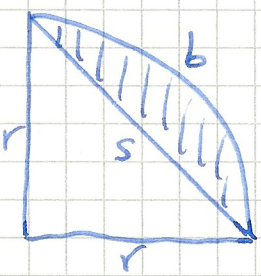
$= \frac{1}{2}\pi d_1^2 + \frac{1}{2}\pi d_1 d_2 + \frac{1}{8}\pi d_2^2 - \frac{1}{4}\pi d_1^2$

$+ \frac{1}{8}\pi d_2^2$

$= \frac{1}{2}\pi d_1 d_2 + \frac{1}{4}\pi d_1^2 + \frac{1}{4}\pi d_2^2$.

$U = \frac{1}{2}\pi(2d_1+d_2) + \pi d_1 + \frac{1}{2}\pi d_2 = \pi(2d_1+d_2)$

848 (a)



$s = r\cdot\sqrt{2}$ $\quad b = \frac{1}{4}\cdot 2\pi r = \frac{\pi r}{2}$

$\Rightarrow U = b + s = r\cdot\sqrt{2} + \frac{\pi}{2}\cdot r$

$= \ldots$ TR (etwa 11gmm)

$A_{\textcircled{1}} = A_{\square} - A_{\triangle} = \frac{1}{4}\pi r^2 - \frac{1}{2}r^2 = \ldots TR \ldots$

etwa 457 mm²