Chapter 17:
17.498 .8 mm .
17.6: theta $=13.26 \mathrm{rev}$
$17.8 \quad 19.77$ rev.
$17.1380 .7 \mathrm{lb} \downarrow$.
$17.173 .27 \mathrm{rad} / \mathrm{s} \downarrow$.
17.19: omega $=(12)^{\wedge}(0.25)^{*}$ sqrt(g/L), $C y=2 m g, C x=0$
17.23: $d=0.1817 \mathrm{~m}$
17.31: $\mathrm{Va}=7.43 \mathrm{ft} / \mathrm{s}, \mathrm{T} 1=4.0 \mathrm{lb}$
$17.341 .000 \mathrm{~m} / \mathrm{s} \rightarrow$.
$17.374 .82 \mathrm{~m} / \mathrm{s} \rightarrow, 0$.
17.42 (a) $0.926 \sqrt{g L} \leftarrow$. (b) $1.225 \sqrt{g L} \leftarrow$.
$17.4584 .7 \mathrm{rpm} \downarrow$.
17.552 .84 s.
$17.59\left(1+\mu_{k}^{2}\right) r \omega_{0} / 2 \mu_{k}\left(1+\mu_{k}\right) g$.
$17.63(a) \boldsymbol{\omega}_{A}=686 \mathrm{rpm} \uparrow, \boldsymbol{\omega}_{B}=514 \mathrm{rpm} \downarrow \cdot(b) 4.18 \mathrm{lb} \cdot \mathrm{s} \uparrow$.
17.71 (a) $2.55 \mathrm{~m} / \mathrm{s} \uparrow$. (b) 10.53 N
17.75 (a) 0.557 s. (b) 16.82 N .

