

17.1

1. 0
2. 0
3. $-\pi/4$
4. $\frac{1}{6}$
5. $\frac{5}{3} - \frac{1}{2}e^4 + \frac{1}{2}e^6 - \frac{5}{2}e^2$
6. $F = \langle 2xe^4, x + x^2e^4 \rangle$
7. $4\pi - 16$
8. 34

17.2

1. e^{-1}
2. 2π
3. 60π
4. $\frac{3616}{105}$
5. $\frac{32\pi}{5}$