```
Ch 6.3 # 1, 3, 4, 6, 8, 10, 11, 14, 15, 16
     1.
a. 0
b. -6
c. -12
d. 10
e. -2
f. 16
     3.
a. 5
b. 5sqrt(3)
c. -5
d. -5
     4.
a. -sqrt(2)
b. sqrt(2)
c. -sqrt(2)
d. 1
     6.
a. 6
b. 6
     8.
     9. If f is integrable, then int(a, b)f(x)dx \le f_{max} * (b-a), where f_{max} = 0, so int(a,
         b)f(x)dx <= 0
    10. \int 0 \rightarrow \sqrt{3}: (x^2 - 1)dx = 0
         0 = x^2 - 1
         1 = x^2
         x = 1
    11. \int 0 \rightarrow 3: ((x - 1)^2) dx = 3
         3 = (x - 1)^2
         \sqrt{3} = x - 1
         x = 1 + \sqrt{3}
    12.
0.5 * b * h
0.5 * 6 * 3
9
    16.
2 - πr^2
```

2 - π