FST Name:

PS 5.5 Date: Block:

***Problem Set 5.5***

**1) Evaluate the logarithmic expression.**

a) log28 b) log6216 c) log77

d) log5 e) f) ln(1)

**2) Solve for x.**

a) log6x = 2 b) log16x = -1 c) logx64 = 3

**3) Expand the expression using the properties of logarithms.**

a) log6(3x) b) c) log(xy4) d)

**4) Condense the expression using the properties of logarithms.**

a) b) 2 c) 3 d) ln(5) + ln(x) – ln(y)

**5) Condense the left side of the equation. Then solve for x.**

a) b)

c) d)