

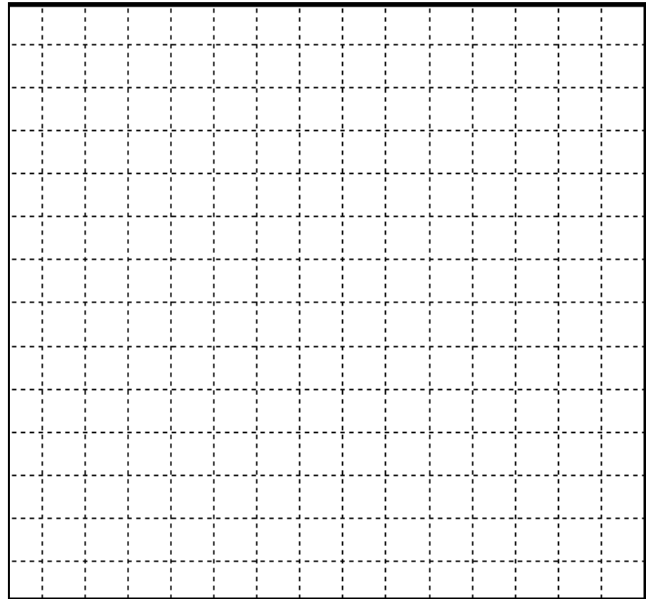


ATHS Al Ain Female Campus
Mathematics Department - Term III
Revision Worksheet (1) – Grade 11

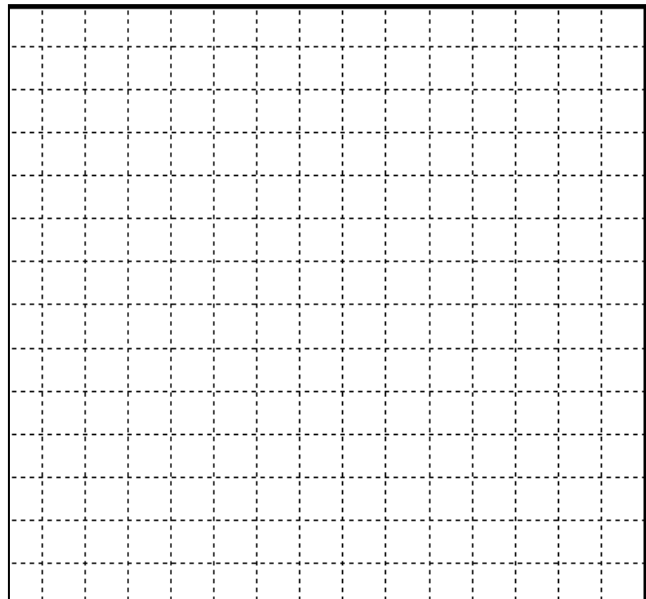
Name:	Date:
Section:	Lesson(s): 8.1 – 8.3

1. Sketch the graph of the given function. Then state the function's domain and range

a) $y = -1.2(3)^x + 2$



b) $y = 2\left(\frac{4}{7}\right)^{x+2} - 1$



2. *Solve the given equation.*

a) $2^{9n-11} = \frac{1}{16}$

b) $6^{5n+6} = 1296$

3. *Solve the given inequality*

a) $11^{5n} \leq \frac{1}{14641}$

b) $4096^{2n} < 512^{n+9}$

4. *Write each equation in exponential form.*

a) $\log_4 32 = \frac{5}{2}$

b) $\log_3 \frac{1}{27} = -3$

5. *Write each equation in logarithmic form.*

a) $2^9 = 512$

b) $\left(\frac{1}{7}\right)^{-3} = 343$

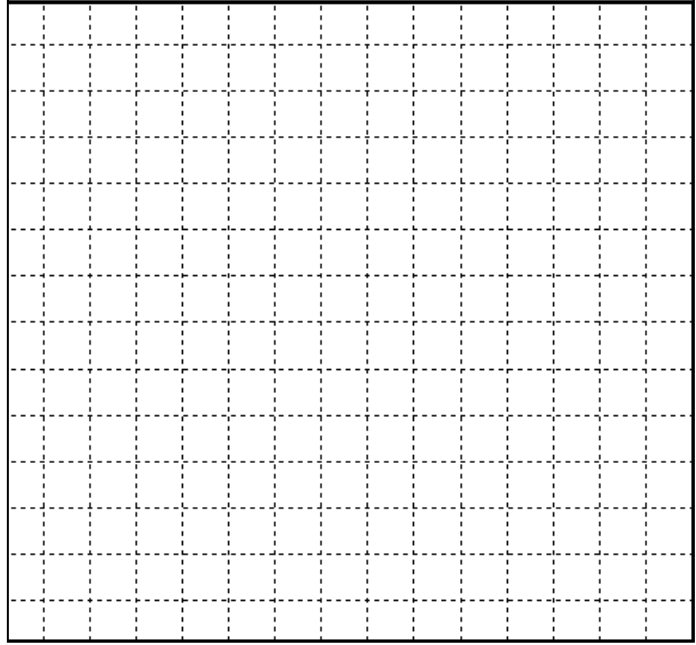
6. *Evaluate the logarithmic expression.*

a) $\log_8 32768$

b) $\log_9 \frac{1}{729}$

7. Sketch the graph of the given function. Then state the function's domain and range

a) $f(x) = 4 \log_3(x - 1)$



b) $f(x) = 2 \log_4(x + 3) - 2$

