Alg 3 Solve with logs.   Name: _____
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Show work in solving

1. $6^x = 95$ A. 1.98   B. 2.54   2. $8^a = -10$ A. 0 .08   B. -0.08

                      C. 4.55   D. 4.95   C. -1.08   D. No solution

3. $10^w = 0.011$ A. -2.11   B. -1.95   4. $4^{3n-2} = 20$ A. 1.4   B. 1.9

                      C. -0.05   D. 0.05   C. 2.2   D. 7.2
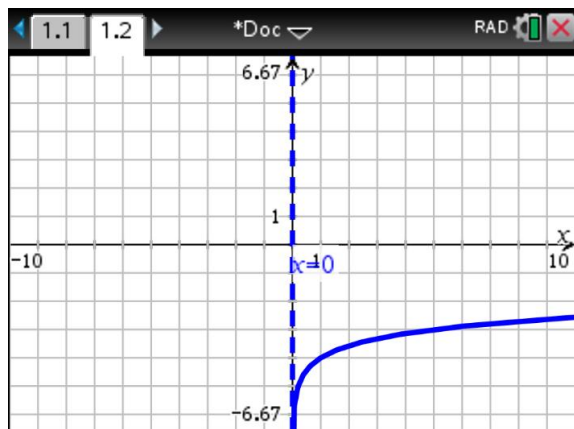
5. $7^{b-6} + 4 = 75$ A. 2.2   B. 8.2   6. $8^{4-n} + 1 = 77$ A. -2.1   B. -1.9
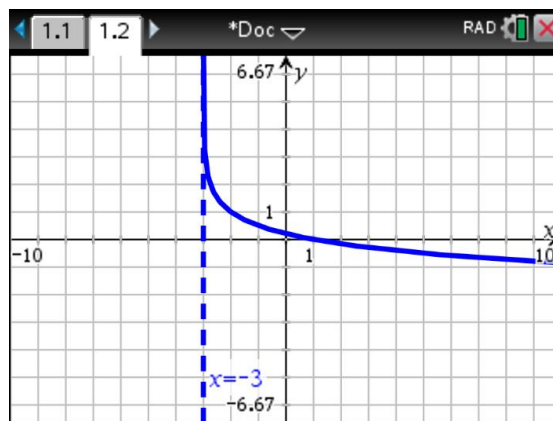
                      C. 8.8   D. 10.2   C. 1.9   D. 2.1
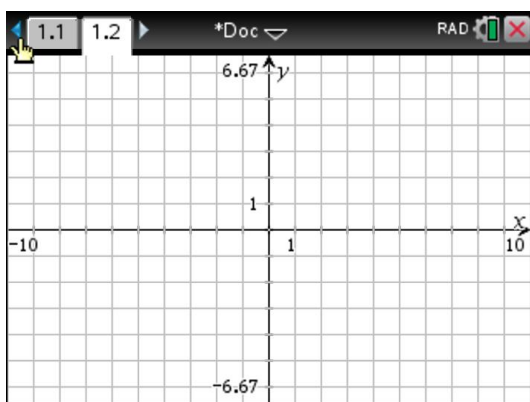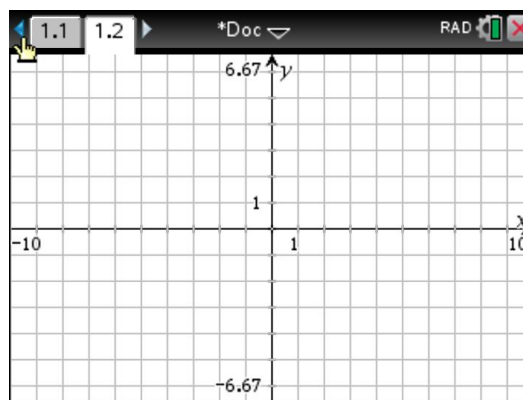
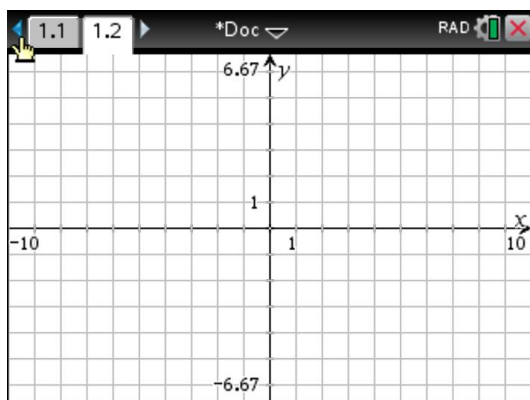7. Determine equation.

a.

b.

8. Sketch each graph.

a. $f(x)=\log_{\frac{1}{2}}x-2$

b. $g(x)=\log_{2}(x-2)$

c. $h(x)=\log_{3}(x+1)-2$

d. $k(x)=\log_{\frac{1}{4}}(x+6)+3$