Algebra 2 w/ Trig

4.1 Graph Exponential Growth Functions

Warm-Up:

* Course Evaluations
* Review Midyear

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Example 1: Graph for *b* > 1 Example 2: Graph for *b* > 1

Graph a) Graph



b) Graph Example 3: Graph for *b* > 1

 Graph . State the domain and range.



You try:

1. Graph . State the domain and range. 2. Graph . State the domain and range.



3. Graph . State the domain and range.





Example 4: Solve a multi-step problem

**In** 1996**, there were** 2573 **computer viruses and other computer security incidents. During the next 7 years, the number of incidents increased by about** 92% **each year.**

**Write an exponential growth model giving the number *n* of incidents** *t***years after** 1996**. About how many incidents were there in** 2003**?**

You Try:

**In the exponential growth model , identify the initial amount, the growth factor, and the percent increase.**

Example 5: Find the balance in an account

**You deposit** $4000 **in an account that pays** 2.92% **annual interest. Find the balance after** 1 **year if the interest is compounded with the given frequency.**

1. Quarterly b. Daily

YOU TRY:

5. **You deposit** $2000 **in an account that pays** 4% **annual interest. Find the balance after** 3 **years if the interest is compounded daily.**

**a. With interest compounded daily, the balance after** 3 **years is:**

KEEP GOING:

1. Graph . State the domain and range. 2. Graph . State the domain and range.

3. **You deposit** $1500 **in an account that pay** 3% **annual interest compounded daily. What is the balance in your account after** 1 **year?**

Hw: Section 4.1 p. 232 #1-25 odds, 28-30 all, 37-38 all