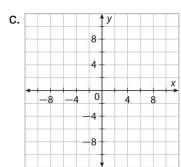
13.3 review:

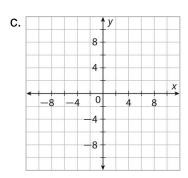
- a. Identify a, h, and k.
- b. Identify and plot the reference points.
- c. Draw the graph.
- d. State the domain and range in set notation.

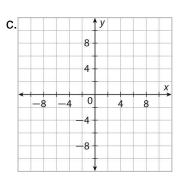
1.
$$g(x) = 2e^x - 4$$

2.
$$g(x) = e^{x-5} + 3$$

3.
$$g(x) = 0.5e^{x+4} - 1$$







d.	

Solve.

- 4. When interest is compounded continuously, the amount A in an account after t years is found using the formula $A = Pe^{rt}$, where P is the amount of principal and *r* is the annual interest rate.
 - a. Use the formula to compute the balance of an investment that had a principal amount of \$4500 and earned 5% interest for 6 years.

b. What is the amount of interest earned in the investment?

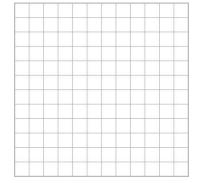
13.4 review

For each investment described, (a) write an exponential growth model that represents the value of the account at any time t, and (b) use a graphing calculator to solve for t for the given value.

1. The principal amount, \$6250, earns 4.25% interest compounded annually. How long will it take for the account's value to surpass \$9500?

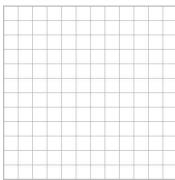






2. The principal amount, \$4200, earns 3.6% interest compounded quarterly. How long will it take for the account's value to surpass \$15,000?

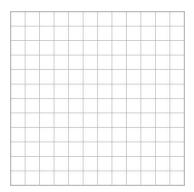




3. The principal amount, \$13,000, earns 8.7% interest compounded continuously. How long will it take for the account's value to reach \$80,000?







Solve.

4. Shiloh plans to make a deposit into one of the accounts shown in the table. He wants to choose the account with the highest effective interest rate, R.

a. Find	R_{A}	and	$R_{\scriptscriptstyle B}$
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b. Which account should he choose?

	Account A	Account B
Nominal Interest Rate	4.25%	4.8%
Compounding Period	Monthly	Semiannually