ALG-2B CH 8 Review 81-8.2 wy 8.3 graphing

Determine whether each equation represents exponential growth or exponential decay. Find the rate of increase or decrease for each model. Graph each equation.

6.
$$y = 5^x$$

7.
$$y = 2(4)^x$$

8.
$$y = 0.2(3.8)^x$$

9.
$$y = 3(0.25)^x$$

Write an exponential function to model each situation. Find the value of each function after five years, to the nearest dollar.

14. A \$12,500 car depreciates 9% each year.

15. A baseball card bought for \$50 increases 3% in value each year.

for 18-21, make parent table we x=-2,-1,0,1,2b) make translation table $\frac{x+h}{y+k}$ 18. $y=-3^x+1$ 19. $y=8^x-1$ 20. $y=2(2)^{x+1}+3$ 21. $y=-2(\frac{1}{3})^{x-2}$ e) make new table by switching the $x \le + y \le -2$ from part b's table

d) Graph final table

Find the amount in a continuously compounded account for the given conditions.

22. principal: \$1000, annual interest rate: 4.8%, time: 2 yr

23. principal: \$250, annual interest rate: 6.2%, time: 2.5 yr

24. principal: \$500, annual interest rate: 8.5%, time: 3 yr

Use A=Pert