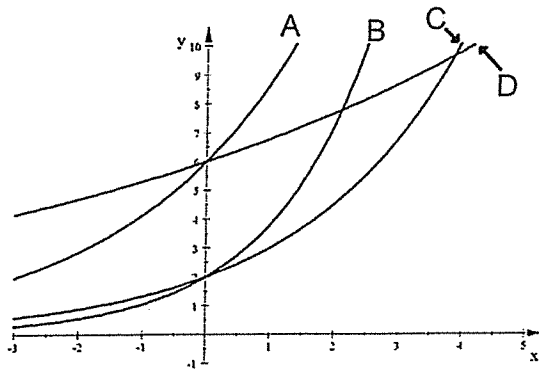


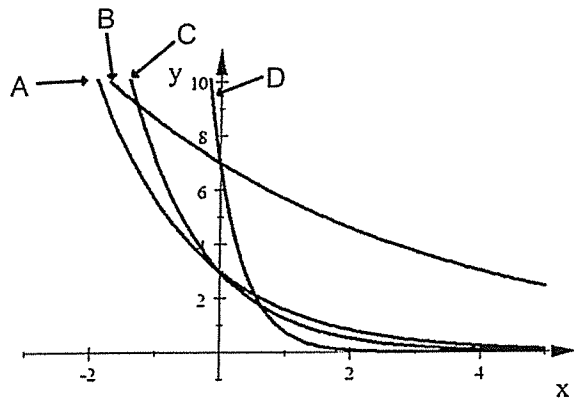
Match each graph to its equation.

1. $y = 2(1.5)^x$ _____ 2. $y = 6(1.45)^x$ _____ 3. $y = 2(1.9)^x$ _____ 4. $y = 6(1.13)^x$ _____



Match each graph to its equation.

5. $y = 3(0.42)^x$ _____ 6. $y = 7(0.81)^x$ _____ 7. $y = 7(0.11)^x$ _____ 8. $y = 3(0.53)^x$ _____



9. Give the y intercept for each graph.

a) $y = 3.5(1.26)^x$

b) $y = -6(0.0031)^x$

c) $y = 2^x$

 $y - \text{int} =$ $y - \text{int} =$ $y - \text{int} =$

Use these formulas:

Simple Interest: $I = prt$ Compounding Interest: n times per year: $A = P(1 + \frac{r}{n})^{nt}$ Continuously: $A = Pe^{rt}$

You invest \$50,000 in an account that pays 9% annual interest. Find the amount of money in the account after 30 years if interest is calculated the following ways. Round to the nearest penny.

10. Simple interest.

11. Interest compounded annually.

12. Interest compounded quarterly.

13. Interest compounded monthly.

14. Interest compounded continuously.