Week Twenty-Seven Homework

Graph and identify the Exponential Curve.



Name

Date

Period

Find the TOTAL AMOUNT for each money item using $A = p(r+1)^t$.

- 5) Ben deposited \$350 in the bank at 2% interest for three years.
- 7) Julia invested \$5,600 at 9.3% for seven years.
- 6) Kevin paid for a \$2200 trip on his credit card at 23% interest but did not pay for four years.
- 8) Nelly borrowed \$52,700 for college at a rate of 3.75% but paid ten years later.

Solve each equation for both solutions.

9)
$$3|x-5| = 42$$
 10) $|x+6| + 8 = 21$

11)
$$x^2 + 11x + 29 = 5$$
 12) $x^2 - 10x + 19 = -2$

Solve each equation for a single solution. Expect some decimal solutions.

13)
$$7(5x+4) - 16 = 152$$

14) $5(6x-5) + 4 = 219$

15)
$$3.3 \cdot 4^{x} + 11.5 = 64.3$$

16) $-2.75 \cdot 2^{x} + 116.5 = 28.5$

17)
$$\frac{77}{3} + \sqrt{45} + 2x = \left|-111\right| + 6.1^2$$

18) $\left|13.5\right| + \frac{32}{7} + 3.3x = 4.5^3 + 0.9x + \sqrt{22.5}$

19)
$$31 = 5\sqrt{13x - 3}$$
 20) $10.5 = \sqrt{\frac{x}{4}} + 4.8$

21)
$$\frac{3}{x+10} = \frac{2.7}{4x}$$
 22) $\frac{3}{7x} = \frac{9}{x-8.5}$