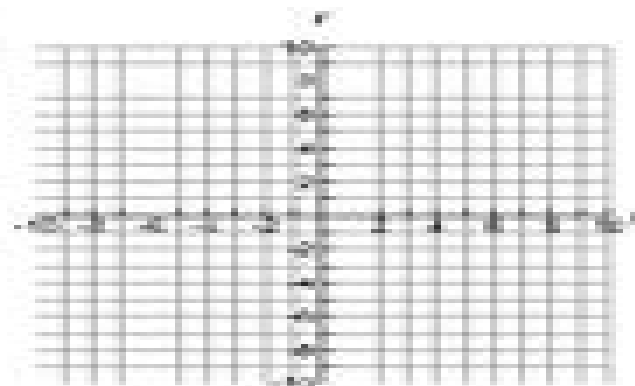


9. Three years ago, Andy invested \$5,000 in an account that earns 6% interest compounded annually. The equation $y = P[1 + i]^t$ describes the balance in the account, where P is the principal, i is the interest and t is time in years. Andy made no additional deposits and no withdrawals. How much is in the account now?
- A. \$5,755.13 B. \$5,750.00 C. \$5,475.19 D. \$5,750.36
10. Fearless Frames makes metal packaging frames for containers. A client asks Fearless Frames to make a large container in the shape of a cube. The company has only 60 meters of available metal tubing in stock. If each line segment below represents a section of metal tubing, determine the volume of the largest possible container that Fearless Frames could make for its customer.
- A. 216,000 m^3 B. 1,000 m^3 C. 421.875 m^3 D. 125 m^3
11. If the number of bacteria doubles every day and you start with 400 bacteria, when will you have at least 4000?
- A. Between the 2nd and 3rd day C. Between the 4th and 5th day
B. Between the 3rd and 4th day D. Between the 5th and 6th day
12. The formula $p = nc - e$ gives the profit p when a number of items n are each sold at a cost c and expenses e are subtracted. If you make a profit of \$41.50 when you sell 3000 items and your expenses are \$500, what is the cost of each item?
- A. \$1.25 B. \$1.50 C. \$0.72 D. \$1.22
13. The formula for the resistance of a conductor with voltage V and current I is $R = \frac{V}{I}$. Solve for V .
- A. $V = \frac{R}{I}$ B. $V = \frac{I}{R}$ C. $V = IR$ D. $V = \frac{1}{RI}$
14. If $2x - 8 = 31$, find the value of $4x$.
- A. 8 B. 16 C. 34
15. Solve $2^x = 8$.
- A. 3 B. -3 C. 4

Free Response

16. Write a model and find four consecutive integers whose



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