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| 1. Solve: | 1. Solve: |
| 1. Solve: | 1. Solve: |
| 1. Write and solve an equation for the following:   A hawk can fly at 30 miles/hour. How far will the hawk travel in 20 minutes? | 1. Solve: |
| 1. Find the next three terms of the sequence and write an explicit formula:   4, 12, 36, 108, … | 1. Write a rule for the sequence:   2, 20, 200, 2000, … |
| 1. Find the 3rd term in the sequence: | 1. Find the next three terms of the sequence and write an explicit formula.   100, 95, 90, 85, … |
| 1. Write a rule for the sequence:   17, 22, 27, 32, … | 1. Find the 4th term in the sequence: |
| 1. Using the formula,   Find the value of a $10,000 invested at 4% for 10 years. | 1. Using the function, ,   Calculate the population of Apex, NC in ten years if their current population is 150,000 people and the town grows at a rate of 3% each year. |
| 1. Using the function, ,   Calculate the population of Beaufort, NC in ten years if their current population is 110,000 people and the town decreases at a rate of 2% each year. | 1. Sam is saving $20 each week from his job. He has $300 in savings right now. Write an equation to model how much money he will have in “x” weeks. |
| 1. Find the slope of a line that passes through points (1,4) and (2,10). | 1. Write the equation of a line that passes through point (0,4) with a slope of -4. |
| 1. Write the equation of a line that passes through points (1,5) and (3,15). | 1. Find the equation of a line from the following table. What is the y-intercept? What is the slope?  |  |  | | --- | --- | | x | y | | 0 | 12 | | 1 | 9 | | 2 | 6 | | 3 | 3 | |
| 1. Graph the line: | 1. Graph the equation: |
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| 1. Is the relation a function? | 1. Is the relation a function? |
| 1. State the domain, range, x-intercept, y-intercept, intervals where the function is increasing and decreasing. | 1. Use the graph to answer the following questions: 2. What is f(-4)? 3. What is f(6)? 4. What is g(-2)? 5. What is g(0)? 6. f(-4)+g(0)=? 7. f(6) – g(-2)=? 8. Where is g(x)>f(x) |
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| 1. The distance a sloth can travel is a function of time. If sloths move at a constant rate of 6 feet/minute, how many minutes would it take a sloth to travel 20 feet? Write and solve an equation. | |