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$\qquad$ Notes: Arithmetic Sequences


|  | 12. $-11,-8,-5,-2, \ldots$ | 13. $-2,0,2,4, \ldots$ |
| :---: | :---: | :---: |
|  | 14. $-16,-21,-26,-31, \ldots$ | 15. $101,92,83,74, \ldots$ |
| Applications | 16. You visit the Grand Canyon and drop a penny off the edge of the cliff. The distance the penny will fall is 16 feet for the first second, 48 feet for the next second, 80 feet the third second, and so on. <br> a. Write a formula to represent this sequence. <br> b. How far will the penny have traveled after 6 seconds? |  |
|  | 17. The total bank loan automatically with <br> a. Write a formula <br> b. What will be th | $v$ car is $\$ 15,265$. The bank each month to pay off the car. <br> his sequence. <br> loan after 2 years? |

