## y=a(1 ±r)n Bell Work 2-1-19 1) A new car recently purchased has a depreciates at a rate of 22% each year. The purchase price was \$31,000. What is the value of the car after 7 years? a=31,000 $\Gamma = 22\% = 0.22$ $\Gamma = 7$ 31,000(1-,22)7 31,000 (.78) 31,600(c.175655689) = 5445,326 = \$5445.33 2) A family purchases a home for \$237,000. The home is expected in increase in value by 3.8% each year. Find the a=237,000 f=3,8%=0.038 N=12 value of the home after 12 years. 237,000(1+0,038) 237,000(1.038)<sup>12</sup> 237,000(1.564473611) = 370,780.25

Feb 1-6:18 AM