

Name: _____

Weekly #22

****DUE BY 4/13/18****

****TURN IN BY 4/10/18 FOR EXTRA CREDIT!!****

Show all work for full credit

- 1) You purchase 16 gal of paint and 6 brushes for \$305. The next day, you purchase 6 gal of paint and 2 brushes for \$113.00. How much does each gallon of paint and each brush cost? **(Notes #48-48.5)**

- 2) Factor by Grouping: $6x^2 + 3x + 4x + 2$ **(Notes #77-78)**

- 3) Write an equation that represents the line that passes through the points (5, 4) and (-5, 0). **(Notes #35)**

- 4) The population of Buffalo is declining at a rate of 1.1% per year. If the population is 259,000 people in 2013, predict what the Buffalo population will be in 2020. **(Notes #59)**