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| \*Learning Target: |
| \*Critical Content: |

\*To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ polynomials, you simply combine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and are careful about \_\_\_\_\_\_\_\_\_\_\_\_\_

Ex: Ex:

Ex: Ex:

Ex: The equations and represent the number of cell phones (P) and digital cameras (C) sold in m months at an electronics store. Write an equation for the total monthly sales, T, of phones and cameras. Then, predict the number sold in 10 months.

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| **Find each sum or difference.** | | | |
| 1) | 2) | | 3) |
| 4) | 5) | | 6) |
| 7) | | 8) | |
| 9) From 1997 to 2007, the number of dogs *D* and the number of cats *C* (in hundreds) adopted from animal shelters in the United States are modeled by the following equations: and . Where *n* is the number of years since 1997. | | | |
| a) Write an equation that models the total number *T* of dogs and cats adopted in hundreds for this time period. | | | |
| b) If this trend continues, how many dogs and cats will be adopted in 2011? | | | |
| 10) Kim is painting two walls of her bedroom. The area of one wall can be modeled by , and the area of the other wall can be modeled by . What is the total area of the two walls? | | | |