**Algebra I - Bellwork #33**

For each problem, find two numbers whose product equals the top number and whose sum equals the bottom number.

1. 2. 3.

 56 108 -64

 -15 21 12

The work for expanding two binomials is shown but some of the beginning information has been lost. Fill in the missing information.

|  |  |
| --- | --- |
|  $3x^{2}$ | $$-12x$$ |
|  $2x$ | $$-8$$ |

|  |  |
| --- | --- |
|  $-6x^{2}$ | $$-9x$$ |
|  $16x$ | $$-24$$ |

4. 5.

6. Expand each. Write your answer in Standard Form, then name each based on its degree and number of terms.

a. $\left(2x-4\right)^{2}$ b. $(3x^{2}+4)(x+7)$ c. $\left(6x+7\right)^{2}$