Algebra 1 – Homework – Factoring Trinomials where a$\neq$1   Name_____

YOU MUST SHOW ALL YOUR WORK TO RECEIVE CREDIT!!

Factor each polynomial.

1. $2x^2 + 13x + 15$ 1._____

2. $3x^2 + 4x - 4$ 2._____

3. $2x^2 - 7x + 3$ 3._____

4. $5x^2 - 6x - 8$ 4._____

5. $3x^2 - 2x - 5$ 5._____

6.   Explain how you would factor #5.

7.   In the answer column, list the correctly factored steps of $5x^2 - 18x + 9$ by their letter.

A. $5x^2 - 15x - 3x + 9$

B. $-15x \cdot -3x = 45x^2$
    $-15x + -3x = -18x$

C. ____ · ____ $= 45x^2$
    ____ + ____ $= -18\ x$

D. $5x(x-3) - 3(x-3)$

E. $(x-3)(5x-3)$

F. 1, 45
    3, 15
    5, 9

G. $(5x^2 - 15x)(-3x + 9)$

Answer Column	
_____	_____
_____	
_____	
_____	
_____	
_____	