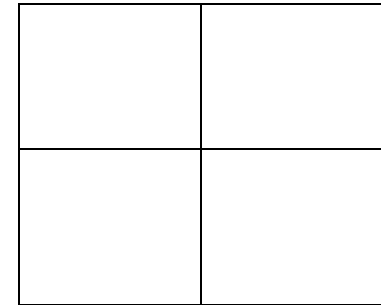


Factoring Quadratics

$$14x^2 - 12x - 2 = (\underline{\quad})(\underline{\quad})$$



How to Factor

- Check to see if you can factor out a GCF.
- Write the squared term in the top left box.
- Write the constant in the bottom right box.
- The missing diagonal sums to the middle term.
- The missing diagonal multiplies to the product of the other diagonal.
- Find the missing diagonal.
- Determine what was multiplied to form the four boxes.
- Rewrite with parentheses.

$$9x^2 - 6x - 15 = (\quad)(\quad)$$

$$2x^2 + 11x + 5 = (\quad)(\quad)$$

$$2x^2 + 3x - 9 = (\quad)(\quad)$$

$$10x^2 + 80x + 70 = (\quad)(\quad)$$

$$3x^2 - 8x + 4 = (\quad)(\quad)$$

$$x^2 - 16 = (\quad)(\quad)$$
