

The "ac"
method:

Factor $3m^2 - 5m - 22$

- 1) Multiply the coefficients of a and c
- 2) Find factors of that product that create the middle term
- 3) Rewrite the middle term with those factors
- 4) Factor by grouping
- 5) FOIL to check

The "ac"
method:

Is the "ac" method different than how we were factoring earlier this week?

Try the "ac" method to factor $x^2 + 4x - 32$

- 1) Multiply the coefficients of a and c
- 2) Find factors of that product that create the middle term
- 3) Rewrite the middle term with those factors
- 4) Factor by grouping
- 5) FOIL to check

Practice: Factor each polynomial:

1) $7a^2 - 50a + 7$ 2) $4b^2 - 8b - 5$ 3) $6c^2 + 5c - 14$