

Unit 3. Section 5. Special Trinomials.

Warm-up.



Question 1. Use split the middle method to factor $x^2 - 9x + 18$.

3.5. Special Trinomials

Please meet your group at the assigned location within the classroom.

Step 1. Work on the following problems with your group.

Take turns writing the solution on the whiteboard.

Each student must use a different color marker.



Practice 1. Calculate $(2x + 3)^2$.



Practice 2. Calculate $(3x - 2)^2$.



Practice 3. Calculate $(2x - 5)(2x + 5)$.

Special trinomials

Fill in the blanks below

$(a + b)^2$	$(a - b)^2$	$(a - b)(a + b)$
$(a + b)^2$ = (____)(____) = _____ = _____	$(a - b)^2$ = (____)(____) = _____ = _____	$(a - b)(a + b)$ = _____ = _____
$(a + b)^2 =$	$(a - b)^2 =$	$(a - b)(a + b) =$



Practice 4. Convert from standard form to factor form using special trinomials formulas from above.

- A) $64x^2 + 48x + 9 =$ _____
 B) $4x^2 - 12x + 9 =$ _____
 C) $16x^2 - 25 =$ _____

Step 2. Move one group to your right and provide feedback on their work.

Use a different color marker than any color the group used.