


SPORTY HOST

The game of baseball was first played in the United States in 1829. Up until 1935, the games were always played in the daytime. Which city hosted the first nighttime baseball game?

Simplify each problem by using either the distributive property or the FOIL pattern. On the "scoreboard," mark a "run" for Cincinnati for every solution that ends in a negative number; mark a run for Dallas for every solution that ends in a positive number. The city with the most runs is the one that hosted the event.

 **Tip:** Use the left and right distributive properties when multiplying two polynomials. In other words, $(ax + b)(x^2 + x + c) = ax(x^2 + x + c) + b(x^2 + x + c)$ where a , b , and c are real numbers. Use the FOIL pattern when multiplying two binomials: $(x + b)(x + c) = x^2 + bx + cx + bc$, where b and c are real numbers.

1. $(x + 2)(x - 5)$

2. $(x - 4)(x^2 + 2x + 6)$

3. $(x + 3)(2x + 6)$

4. $(x + 2)(x^2 + 7x - 10)$

5. $(x^2 - 8)(x^2 + 3x - 1)$

6. $(3x^2 + 2)(x - 3)$

7. $(5x - 7)(3x - 4)$

8. $(x^2 + 4x - 2)(x + 4)$

9. $(-2x + 5)(x - 1)$

SCOREBOARD	
Cincinnati	Dallas

Answer: _____