

## A P.I. R<sup>2</sup> Mini-Mystery

### Who Killed Mr. Quad?

**Directions:** Solve each quadratic equation below by factoring, then use your solutions to eliminate the suspects and solve the mystery.

1.  $x^2 + 8x + 15 = 0$

2.  $x^2 - 16x + 48 = 0$

3.  $x^2 + 4x - 21 = 0$

4.  $x^2 - 6x - 16 = 0$

5.  $x^2 + 5x - 66 = 0$

6.  $x^2 - 14x + 45 = 0$

7.  $x^2 + 3x - 4 = 0$

8.  $x^2 + 14x + 48 = 0$

9.  $x^2 + 2x - 63 = 0$

10.  $x^2 - 13x + 36 = 0$

11.  $x^2 + 8x - 20 = 0$

12.  $x^2 - 10x - 11 = 0$

13.  $x^2 + 2x - 120 = 0$

14.  $x^2 - 5x - 24 = 0$

15.  $x^2 + 4x - 12 = 0$

16.  $x^2 - 2x - 35 = 0$

17.  $x^2 - 7x - 44 = 0$

18.  $x^2 + 6x - 27 = 0$

19.  $x^2 - 11x - 12 = 0$

20.  $x^2 + 9x + 14 = 0$

**WHO?** Mr. Jones {-7, 3} Mr. Brown {-12, 10} Mr. Patrick {-1, 11} Ms. Manns {-8, 3} Mrs. Wright {-1, 12} Ms. Davis {-9, 7}**WHAT?** Crowbar {-11, 6} Pistol {-10, 2} Poison {-2, 8} Knife {-7, -2} Rope {10, -2} Vase {-4, 11}**WHERE?** Dining Room {-4, 1} Game Room {-9, 3} Office {-5, -3} Kitchen {5, 9} Bedroom {4, 12} Garage {-7, -3} Cellar {-6, 2} Library {4, 9} Hall {-8, -6} Balcony {-3, 8} Garden {-5, 7}

IT WAS (WHO)

WITH A (WHAT)

IN THE (WHERE)