

Systems of Equations Matching

(cut out each box, scramble them up, and match the solutions to the functions and graphs)

<u>functions</u>	<u>solution</u>
$y = (x + 2)(x - 2)$ and $y = 2x - 5$	$(1, -3)$ is the only real solution
$0 = 2y - 2x^2 + 6x + 56$ and $y = (x - 7)(x + 4)$	infinitely many real solutions
$x = y + 3$ and $y = x^2$	no real solutions
$y = 3x^2 + 3x - 1$ and $y = x^2 + x + 3$	$(-2, 5)$ and $(1, 5)$ are the only real solutions
$y = -5x^2 + 10$ and $y = 5$	$(-1, 5)$ and $(1, 5)$ are the only real solutions
$y = -x(x + 6)$ and $y = -(x - 2)(x + 4)$	$(-2, 8)$ is the only real solution

