[PACKET 5.5: CONDITIONS FOR RHOMBUSES, RECTANGLES AND SQUARES]



## For what value of x is the figure the given special parallelogram?



For Exercises 11–14, determine whether the parallelogram is a *rhombus*, a *rectangle*, or a *square*. Give the most precise description in each case.

- **11.** A parallelogram has perpendicular diagonals and angle measures of 45, 135, 45, and 135.
  - Rhombus: Perpendicular diagonals
- **12.** A parallelogram has perpendicular and congruent diagonals.

## Square

**13.** A parallelogram has perpendicular diagonals and angle measures that are all 90.

Square: Perpendicular diagonals (rhombus) with right angles (rect)

**14.** A parallelogram has congruent diagonals.

## Rectangles

**15.** For what value of *r* is the parallelogram a rhombus?





	Solve each equation for x!		
	1.	-3x - 3 = -3(x - 10)	2. $0.5(4x - 2) - 2 = 1.5x$
,ew		Multiply!	Factor!
Algebra Revi	3.	(2x + 3)(x - 7)	4. $2x^2 - 3x + 1$
	5.	Graph the equation: y = 0 5 + 4 + 3 + 2 + 1 5 + 4 + 3 + 2 + 1 1 + 2 + 3 + 4 + 5 4 + 4 5 + 4 + 3 + 2 + 1 1 + 2 + 3 + 4 + 5 4 + 4 4 + 3 4 + 5 4 + 3 4 + 4 4 + 4 4 + 4 4 + 4 4 + 3 4 + 4 4 + 4	6. Graph the equation: 2y = 10 - 4x 5 - 4 - 3 - 2 - 1 - 1 - 1 - 2 - 3 - 4 - 5