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Period

Day #43 Homework

Given the following implicitly defined equations, analytically determine what type(s) of symmetry, if any, the graph of the question would exhibit. Show your work.

1.
$$y^2 - xy = 2$$

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2	12	=	r	r
4.	y		N	1

3. $x^2 + xy = 4$

4	x^2	$+ v^2$	= 2	$ \mathbf{r} $
		,	_	1

Answer questions 5 - 8 with the following types of basic functions in mind.

Linear	Absolute Value	Quadratic
F(x) = x	F(x) = x	$F(x) = x^2$
Cubic	Cube Root	Square Root
$F(x) = x^3$	$F(x) = \sqrt[3]{x}$	$F(x) = \sqrt{x}$

5.	Which of the above functio	ns have graphs that
	exhibit y – axis symmetry?	U 1

6. Which of the above functions have graphs that exhibit origin symmetry? Give a reason.

- 7. Which of the above functions have graphs that exhibit y = x symmetry? Give a reason.
- 8. Which of the above functions have graphs that exhibit x axis symmetry? Give a reason.