

Name: _____ Date: _____
 Algebra II Graphing Polynomial Functions Worksheet

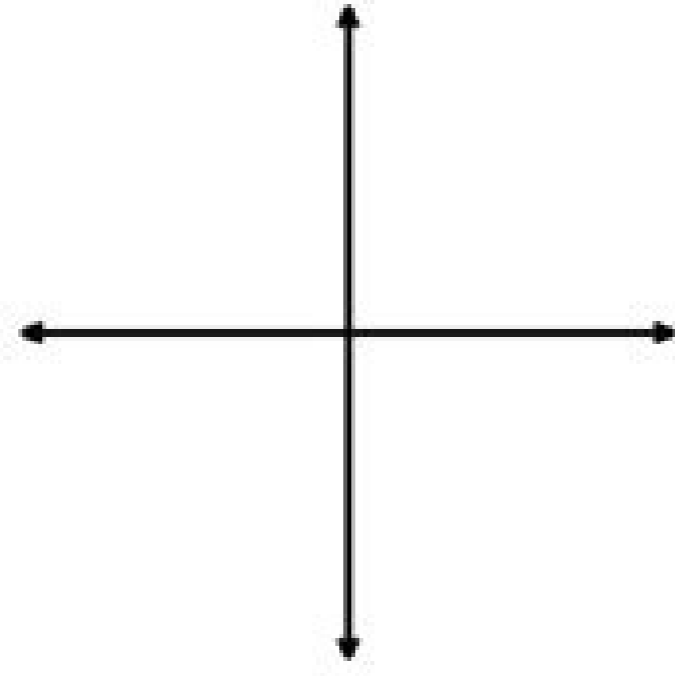
For each of the following, a) give the x-intercepts as ordered pairs, b) the y-intercept as an ordered pair and c) find the end behavior, d) find the behavior at each zero, e) the possible number of turning points, and f) graph and label the zeros with (s, t, or cc).

1. $P(x) = x^2(x-2)(x+2)$

a. x-intercept(s): _____
 b. y-intercept: _____

c. End Behavior: _____
 d. Behavior at the zeros: _____

e. Possible number of turning points: _____

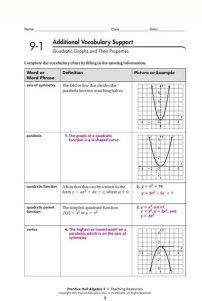
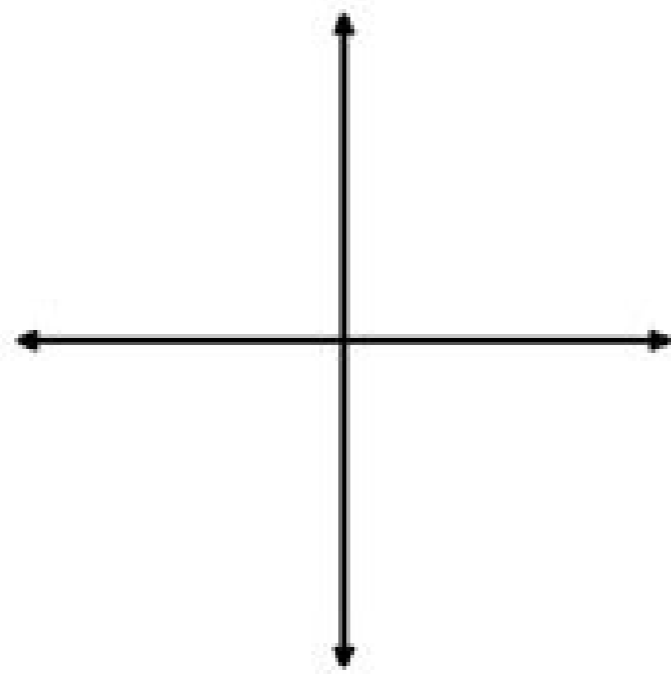


2. $P(x) = (x-1)(x+3)^2$

a. x-intercept(s): _____
 b. y-intercept: _____

c. End Behavior: _____
 d. Behavior at the zeros: _____

e. Possible number of turning points: _____



4. $y = -2x^2 - 3$

coordinates of vertex	(0, -3)
equation to the axis of symmetry	$x = 0$
y-intercept of the parabola	(0, -3)
x-intercept of the parabola	N/A
domain in interval notation	$(-\infty, \infty)$
range in interval notation	$(-\infty, -3]$
interval of increase	$(-\infty, 0)$
interval of decrease	$(0, \infty)$
average rate of change on the interval [0, 1]	-2
circle maximum or minimum value	$y = -3$
end behavior	$f(x) \rightarrow \infty$ as $x \rightarrow \infty$ $f(x) \rightarrow \infty$ as $x \rightarrow -\infty$

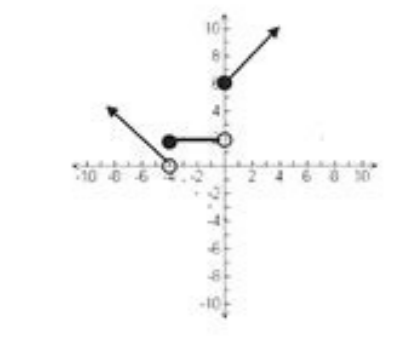
5. $y = \frac{1}{2}x^2$

coordinates of vertex	(0, 0)
equation to the axis of symmetry	$x = 0$
y-intercept of the parabola	(0, 0)
x-intercept of the parabola	(0, 0)
domain in interval notation	$(-\infty, \infty)$
range in interval notation	$[0, \infty)$
interval of increase	$(0, \infty)$
interval of decrease	$(-\infty, 0)$
average rate of change on the interval [-4, 6]	-1
circle maximum or minimum value	$y = 0$
end behavior	$f(x) \rightarrow \infty$ as $x \rightarrow \infty$ $f(x) \rightarrow \infty$ as $x \rightarrow -\infty$

SPIRAL REVIEW

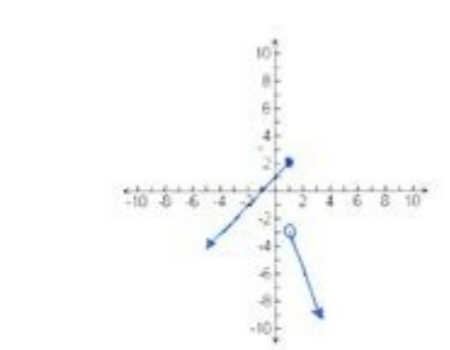
6. Write an equation of the piecewise function.

$$f(x) = \begin{cases} -x - 1 & \text{if } x < -1 \\ \frac{2}{x} & \text{if } -1 \leq x < 0 \\ x + 6 & \text{if } x \geq 0 \end{cases}$$



7. Graph the piecewise function.

$$f(x) = \begin{cases} -3x & \text{if } x > 1 \\ x + 1 & \text{if } x \leq 1 \end{cases}$$



Factoring $x^2 + bx + c$ Name: _____

Factor the trinomials and find one factor in the left column (how to color it) and one factor in the right column (which letter to color).

R	E	A	J	O	I	P	F	A	J	H	E	O	
K	H	O	M	L	A	E	F	R	B	P	L	A	E
J	B	V	S	W	G	H	B	Q	M	P	C	J	
H	V	W	J	M	C	B	O	K	G	M	N	A	
A	I	O	I	D	I	S	O	H	D	N	K	H	
L	A	E	O	C	J	I	F	G	B	X	F	G	D
M	C	A	J	R	L	H	J	D	X	K	A	D	Y
N	L	L	J	E	U	C	B	F	I	D	Z	R	
O	D	N	G	H	E	U	O	X	J	B	S	Y	X
N	Y	O	V	C	A	I	F	A	D	P	O	R	Y
U	O	U	N	P	C	G	B	M	H	R	S	X	
R	T	S	T	T	Y	L	D	O	T	V	I	W	X

- | | | |
|------------------|------------------|------------------|
| $x^2 + 13x + 12$ | $x^2 + 14x + 40$ | $x^2 + 13x + 42$ |
| $x^2 - 11x + 28$ | $x^2 - 13x + 40$ | $x^2 - 16x + 60$ |
| $x^2 + x - 2$ | $x^2 + x - 6$ | $x^2 + 2x - 15$ |
| $x^2 - 3x - 88$ | $x^2 - 3x - 108$ | $x^2 + 2x - 99$ |

These are the countries currently available for verification, with more to come! United States Canada Mexico American Samoa Guam Northern Mariana Islands Moldova Guernsey South Africa China Israel Japan South Korea Taiwan Australia New Zealand Argentina Brazil Chile Venezuela 2 C E R210e1b2q Dkjuytv graphing polynomial functions basic shape kuta software is important information accompanied by photo and HD pictures sourced from all websites in the world. Download this image for free in High-Definition resolution the choice "download button" below. If you do not find the exact resolution you are looking for, then go for a native or higher resolution. Don't forget to bookmark graphing polynomial functions basic shape kuta software using Ctrl + D (PC) or Command + D (macos). If you are using mobile phone, you could also use menu drawer from browser. Whether it's Windows, Mac, iOS or Android, you will be able to download the images using download button. Graphing Polynomial Functions Basic Shape Kuta Software Graphing Polynomial Functions Basic Shape Kuta Software 2 C E R210e1b2q Dkjuytv Graphing Polynomial Functions Ks la2 Kuta Software Polynomial Basics 1 Kuta Software Infinite Algebra 2 Name Kuta Software Graphing Absolute Value Graphing Polynomial Functions Basic Shape Pdf Kuta Software Graphing Polynomial Functions Basic Shape Kuta Software To Review Graphs Of Polynomial Functions Watch The Graphing Polynomial Functions Worksheet With Key In 2019 AZ.5.2 Graph and describe the basic shape of the graphs and analyze the general form of the equations for the following families of functions: linear, quadratic, exponential, piece-wise, and absolute value (use technology when appropriate.). Need a tutor? Click this link and get your first session free! You're Reading a Free Preview Page 3 is not shown in this preview.

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