<b>E</b> > du	Atra Credit Spring Break HW (formerly HV ue Mon 4/19 Questions	NAME : CLASS : N 8.2) DATE :
1.	Mark all true statements given this function: $f(x) = 2(x - 2)^2$	- 4
	a) Parabola contains (0,4)	b) Vertex Form
	c) Factored Form	d) Parabola contains (2,4)
	e) Parabola contains (-2, 4)	
2.	Mark all true statements given this function:g(x) = $2x^2 + 5x$	+ 5
	a) Standard Form	b) Vertex Form
	c) Parabola contains (0, 5)	d) Parabola contains (2,5)
	e) Parabola opens upward	
3.	Mark all true statements given this function:k(x) = - (x - 2)(x	+ 4)
	a) Factored form	b) Vertex form
	c) Contains (2,0) and (-4,0)	d) Contains (-2, 0) and (4, 0)
	e) Opens upward	
4.	Convert the function to factored form and identify the zero $= x^2 + 2x - 8$	os of the function, f(x)
	a) (-2,0)(-4,0)	b) (-2,0) (4,0)
	c) (2,0) (-4,0)	d) (2,0) (4,0)

5. Given the function in vertex form, identify all true	Given the function in vertex form, identify all true statements: $y = -2 (x - 3)^2 + 4$	
a) Contains ( 3,4)	b) Contains (-3, 4)	
C) Opens upward	d) Opens downward	
e) Contains (0,4)		
Given standard form of the function, identify all true statements: $y = -2x^2 + 4$		
a) Contains (-2, 4)	b) Contains (0, 4)	
C) Opens upward	d) Opens downward	
7. What is the vertex for the graph of the function?	What is the vertex for the graph of the function? $y = -2(x - 7)^2$	
a) (7, 0)	b) (-2, 0)	
C) (-2, -7)	d) (2, -7)	
8. Given the vertex form of the function, which state	Given the vertex form of the function, which statements are true?y = $(x - 1)^2 + 9$	
a) The vertex is at (1, 9)	b) The vertex is at (1, -9)	
C) The axis of symmetry has the equation x = 1	d) The axis os symmetry has the equation $x = -1$	
e) The vertex is at (-1, -9)		

9.

What are domain values for increase and decrease for this function? 10 -5 -25-20-10-10-5-5 0 15 20 2 10 15 25 a) Increasing x < -20, Decreasing x > -20 b) Increasing x < -2.5, Decreasing x > -2.5  $\Box$  c) Increasing x > -2.5, Decreasing x < -2.5  $\Box$  d) Increasing x > -20, Decreasing x < -20

10.		What is the range for the function shown and what is the equation for the axis
	25-20-10-5 10 10 10 10 10 10 10 15 20 15 20 15 20 15 20 20 15 20 15 20 20 15 20 20 15 20 20 15 20 20 15 20 15 20 20 15 20 15 20 20 15 20 20 15 20 10 10 10 10 10 10 10 10 10 1	of symmetry?
a) y <u>&lt;</u>	-20	D y ≥ -20
🗌 c) Axi	s of symmetry is y = -2.5	d) y ≥ -2.5
🗌 e) Axi	s of symmetry is x = -2.5	

