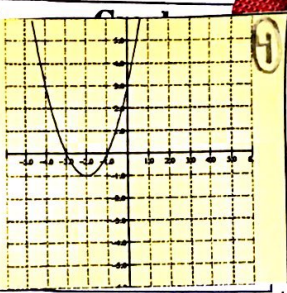
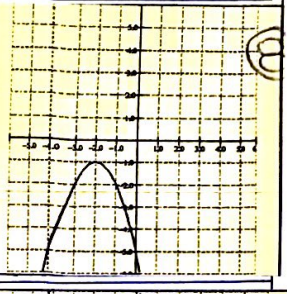
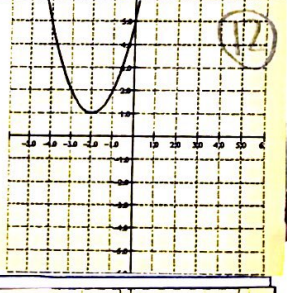
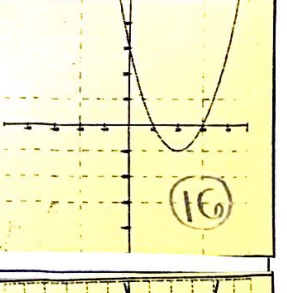
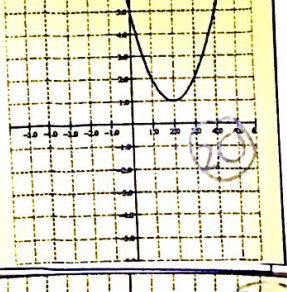


Directions: Find the AoS, vertex & x-intercepts of the below equations. Once finished, raise your hand & I will provide you a sheet to match your answers: find the graph. Glue below.

Equation	AoS	Vertex	x-intercept(s)	y-intercept(s)	Graph
$y = x^2 + 4x + 3$ -4/2 = -2	$x = -2$ (1)	$(-2, -1)$ (2)	$(-3, 0), (-1, 0)$	$(0, 3)$ (3)	
$y = -x^2 - 4x - 5$ -4/-2 = 2	$x = -2$ (4)	$(-2, -1)$ (6)	$(-5, 0), (-1, 0)$	$(0, -5)$ (7)	
$y = x^2 + 4x + 5$ -4/2 = -2	$x = -2$ (5)	$(-2, 1)$	None	$(0, 5)$ (11)	
$y = x^2 - 4x + 3$ 4/2 = 2	$x = 2$ (18)	$(2, -1)$ (14)	$(1, 0), (3, 0)$	$(0, 3)$ (15)	
$y = x^2 - 4x + 5$ 4/2 = 2	$x = 2$ (17)	$(2, 1)$ (18)	None	$(0, 5)$ (19)	
$y = -x^2 + 4x - 3$ -4/-2 = 2	$x = 2$ (13)	$(2, 1)$ (22)	$(3, 0), (1, 0)$	$(0, -3)$	