Intermediate Algebra A L.T. 4.1 A - B

ROUND TABLE

1) Find the Vertex for the equation:

 $y = x^2 - 4x + 3$ Hint: $(\frac{-b}{2a}, f(\frac{-b}{2a}))$ a = 1 b = -4 c = 3

Based on the equation, will the vertex be a maximum or Max Min a minimum?

Find the vertex:

$$X = \frac{4}{2a} = \frac{4}{2} = 2$$

(2,-1)

3) From #1:

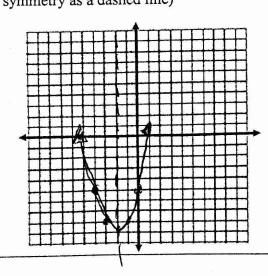
Identify:

Axis of Symmetry: $\sqrt{-2}$ Y - intercept: (o_13)

Domain: Range: YZ

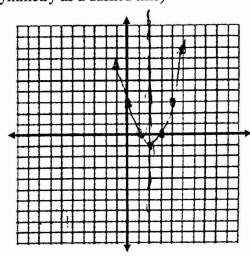
5) From #4: Fill in the table below and plot the points to graph the equation. (Include the axis of _____ symmetry as a dashed line)

X	Y
-4	15
-3	-8
-2	-9
-1	-8
(2	-5



2) From #1: Fill in the table below and plot the points to graph the equation. (Include the axis of symmetry as a dashed line)

· X	Y
0	3
l	0
2	1-1
3	6
4	3



4) Find the x-intercepts and the vertex for:

$$y = (x+5)(x-1)$$

x-intercepts: (-5,0)(1,0)

Vertex: (-2, -9)

6) From #4:

Identify:

Axis of Symmetry: $\sqrt{-2}$

Y - intercept: (0, -5)Domain: $R \le R$ Range: $4 \le -9$

INTERMEDIATE ALGEBRA

Round	Table
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Partner A	Partner I	B

1. Find the Vertex for the equation:

$$y = -(x - 3)^2 - 6$$

Vertex: (3,-6)

Based on the equation, will the vertex be a maximum or a minimum?

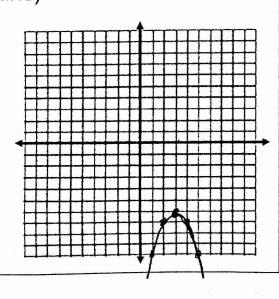
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2. What will the axis of symmetry be for the parabola?

Axis of Symmetry:

3. Fill in the table below and plot the points to graph the equation. (Include the axis of symmetry as a dashed _____ line)

X	Y
1	-10
2	-7
3	-6
4	-7
5	-10



4. What is the Domain and Range of the graph?

Domain: & Pls

Range: 42 -6