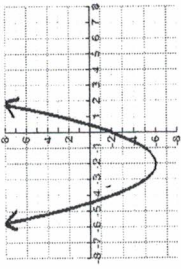
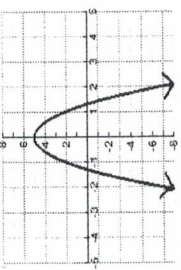
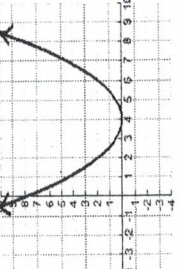
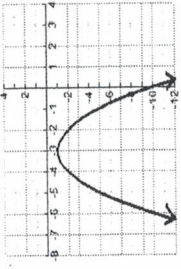
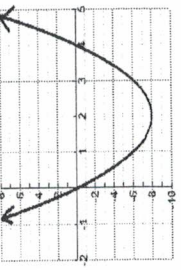
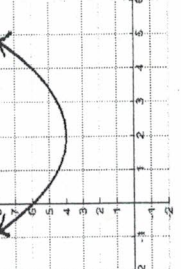


I. State the letter of the graph that matches the given information. Some could have more than one answer.

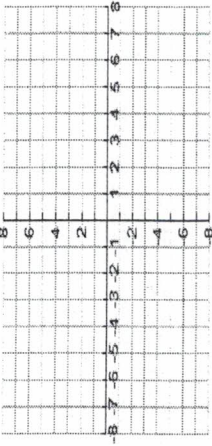
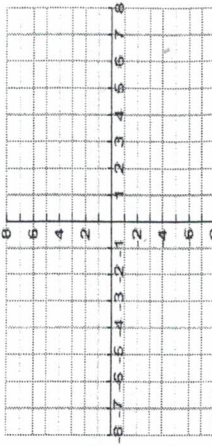
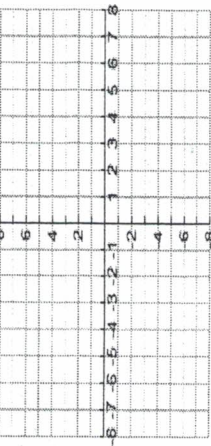
Graph A	Graph B	Graph C
		
Graph D	Graph E	Graph F
		

- 1.) Graph has a vertex that is a minimum. _____
- 2.) Graph is reflected about x-axis. _____
- 3.) Graph has an axis of symmetry at $x = 2$. _____
- 4.) Graph has a y-intercept at $(0, 5)$. _____
- 5.) Graph has no real zeros. _____
- 6.) Graph has a vertex at $(2, -8)$. _____
- 7.) Graph has one real zero. _____
- 8.) Graph has a vertex at $(-3, -1)$. _____
- 9.) Graph has a y-intercept at $(0, -2)$. _____
- 10.) Graph has two real zeros. _____

II. Use the given information to write a quadratic function in standard form.

<p>11.) Function has zeros of -3 and -5 and is being vertically stretched by 2.</p>	<p>12.) Function has only a zero of -2 and is being reflected about x-axis.</p>	<p>13.) Function has a zero of $\frac{1}{4}$ and -6 and is being vertically compressed by $\frac{1}{2}$.</p>
<p>14.) Function has zeros of -1 and 4 and is being vertically stretched by 3 and reflected about x-axis.</p>	<p>15.) Function has a vertex at $(3, -2)$ and is being vertically stretched by 4.</p>	<p>16.) Function has a vertex at $(-4, 5)$ and is being reflected about x-axis.</p>

III. Find the required information for each quadratic function. Graph MUST be ACCURATE! Show work!!

Axis of Sym (aos)	Vertex (Max or Min)	Factor(s) / Zero(s)	Y-intercept	Graph
				<p>17.) $y = x^2 - 4x + 4$</p> 
				<p>18.) $y = -4x^2 - 2x + 6$</p> 
				<p>19.) $y = \frac{1}{2}x^2 - 6$</p> 
				<p>20.) $y = 2x^2 + 4x - 3$</p> 