Transforming Functions

1. Given each equation for $y = f(x)$, indicate the new equation $y = \pm af(\pm b(x - h)) + k$ after each transformation in the order stated:

A reflection over the y-axis A shift of 3 units right A shift of 2 units up	
A shift of 2 units left A reflection over the x-axis A shift of 6 units down	
A reflection over the y-axis A shift of 4 units left A shift of 6 units up	
A reflection in both the y-axis A shift of 3 units right A reflection in both the x-axis A shift of 11 units down	
A shift of 2 units left, A reflection in the x-axis A shift of 6 units down	
A reflection in the $x - axis$ A shift of 6 units down	
A horizontal reflection over the y-axis Then an reflection over the x-axis	
A horizontal expansion by a factor of 3 Then shifted up by 5 units	
A vertical compression by a factor of 0.5 A vertical reflection. Shift of 6 units down	
A Reflection in the y-axis and A Horizontal compression by a factor of 1/3. A shifted 3 units left.	

Given $y = f(x)$, indicate the transformation equation and the new transformed equation.

A reflection in both the y-axis A horizontal expansion by a factor of 2, A reflection in both the x-axis A shifted of 11 units down	
A reflection in the $y - axis$, A Horizontal compression by 1/3, A shift of 2 units left.	
A reflection in the $x - axis$ A shift of 6 units down	
A horizontal compression by a factor of 0.25, A shift of 3 units left. A vertical expansion by a factor of 2 A shift of 2 units up.	
A horizontal reflection over the y$-axis$ A Horizontal compression by 0.5 A reflection over the line x$-axis$	
Horizontal reflection Horizontal expansion by a factor 3 Horizontal Shift of 3 units left	
A vertical reflection A vertical compression by a factor of 0.75 Vertical shift of 8 units up	
A horizontal compression by a factor of 0.25. A vertical expansion by a factor of 2 A reflection over the x-axis.	
Horizontal reflection Horizontal Expansion by a factor of 3 Horizontal Shift of 3 lefts left	
A vertical reflection A vertical compression by a factor of 0.75 Vertical shift of 8 units up	
A reflection in the y-axis. A horizontal expansion of 3 A horizontal shift of 3 units left A vertical compression of 0.3.	