Year 1 - Simple Graph Transformations

Qı	iestion 1	
De	scribe how $y = f(x + 2)$ will transform the graph	of $y = f(x)$.
[Translate the graph 2 units to the left	Translate the graph 2 units to the right
[Translate the graph 2 units up	Translate the graph 2 units down
Qı	uestion 2	
Describe how $y = f(x) - 3$ will transform the graph of $y = f(x)$.		
[Translate the graph 3 units to the left	Translate the graph 3 units to the right
[Translate the graph 3 units up	Translate the graph 3 units down
Qı	iestion 3	
De	scribe how $y = f(2x)$ will transform the graph of y	y=f(x).
[Horizontal stretch by scale factor 2	Horizontal stretch by scale factor $\frac{1}{2}$
[Vertical stretch by scale factor 2	Vertical stretch by scale factor $\frac{1}{2}$
Qı	lestion 4	
De	scribe how $y = 6f(x)$ will transform the graph of y	y = f(x).
[Horizontal stretch by scale factor 6	Horizontal stretch by scale factor $\frac{1}{6}$
[Vertical stretch by scale factor 6	Vertical stretch by scale factor $\frac{1}{6}$
Qı	uestion 5	
De	scribe how $y = f\left(\frac{1}{3}x\right)$ will transform the graph of	y = f(x).
[Horizontal stretch by scale factor 3	Horizontal stretch by scale factor $\frac{1}{3}$
[Vertical stretch by scale factor 3	Vertical stretch by scale factor $\frac{1}{3}$
Qı	iestion 6	
De	scribe how $y = f(x) + 1$ will transform the graph	of $y = f(x)$.
[] Translate the graph 1 unit to the left	Translate the graph 1 unit to the right
[Translate the graph 1 unit up	Translate the graph 1 unit down

Question 7



Question 9

The graph of y = f(x), where $f(x) = \frac{1}{x}$ is sketched to the right

Which of these graphs has equation y = f(x) + 2?



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Question 10

The graph of y = f(x), where $f(x) = \frac{1}{x}$ is sketched below.



Which of these graphs has equation y = f(x + 2)?



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