**Quiz 2**  
For use after Lessons 9.3–9.5

The vertices of $\triangle ABC$ are $A(6, 2)$, $B(4, 3)$, and $C(9, 8)$. Graph the reflection in the line.

1. $x$-axis
2. $y = -2$

Find the coordinates of the image of $P(3, -4)$ after the rotation about the origin.

3. $90^\circ$ rotation  
4. $180^\circ$ rotation  
5. $270^\circ$ rotation

The vertices of $\triangle LMN$ are $L(-9, 7)$, $M(-6, -1)$, and $N(-2, 2)$. Graph the image of $\triangle LMN$ after a composition of the transformations in the order they are listed.

6. Translation: $(x, y) \to (x + 8, y)$
   
   Reflection: in the $y$-axis

7. Rotation: $90^\circ$ about the origin
   
   Translation: $(x, y) \to (x + 3, y - 4)$

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*Answers*

1. See left.
2. See left.
3. 
4. 
5. 
6. See left.
7. See left.