Question 2:

Which of the following is the equation of an ellipse with center (-2, 3) and with major or x-radius length 5 units and minor or y-radius length 6 units?

A. $\frac{(x+2)^2}{10} + \frac{(y-3)^2}{12} = 1$

   Incorrect. Center is correct, but x- and y-radii must be the square roots of the numbers in the equation.

B. $\frac{(x+2)^2}{25} + \frac{(y-3)^2}{36} = 1$

   Correct! $h = -2$ and $k = 3$; center (-2, 3) ; major radius = $\sqrt{36} = 6$ and minor radius = $\sqrt{25} = 5$

C. $\frac{(x+2)^2}{36} + \frac{(y-3)^2}{25} = 1$

   Incorrect. check the major and minor radius values.

D. $\frac{(x+3)^2}{25} + \frac{(y-2)^2}{36} = 1$

   Incorrect. The center of this ellipse will be (-3, 2)