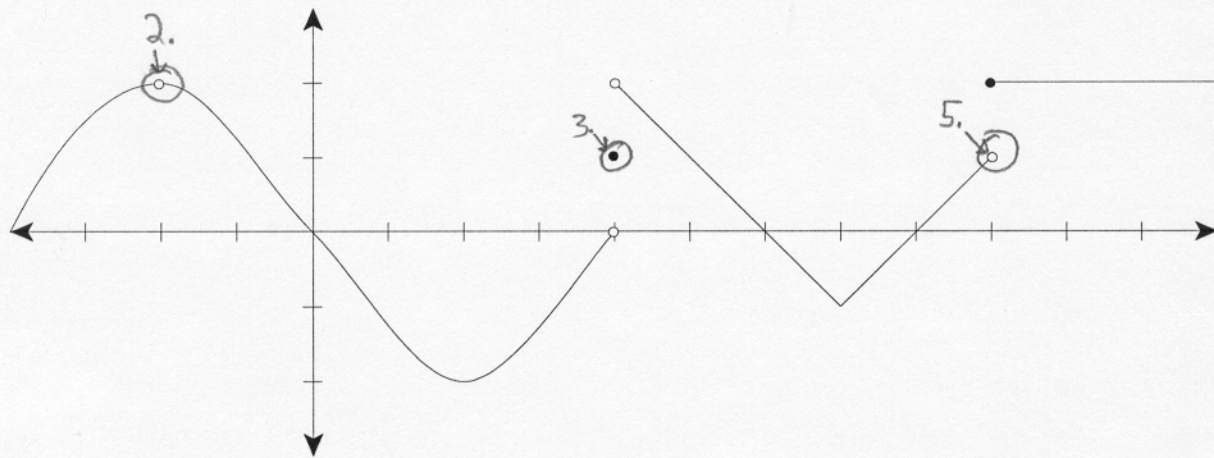Each problem is worth 2 points. Clear and complete justification is required for full credit.

Use the graph of $f(x)$ shown above to answer the following questions:

1. What is $f(-2)$?

   $f(-2)$ does not exist because there is an empty dot where $f(-2)$ should be.

2. What is $\lim\limits_{x \to -2} f(x)$?

   $\lim\limits_{x \to -2} f(x) = 2$

3. What is $f(4)$?

   $f(4) = 1$

   Excellent

4. What is $\lim\limits_{x \to 4} f(x)$?

   $\lim\limits_{x \to 4} f(x)$ does not exist. Both sides approach at different heights.

5. What is $\lim\limits_{x \to 9^-} f(x)$?

   $\lim\limits_{x \to 9^-} f(x) = 1$