Directions: Each of the questions or incomplete statements below is followed by five suggested answers or completions. Select the one that is best in each case and then blacken the corresponding space on the answer sheet.

1. An equation of the straight line through the point (6,2) with a slope of 3 is:
   (A) \( y = 3x + 16 \)
   (B) \( y = 3x + 20 \)
   (C) \( y = 3x - 16 \)
   (D) \( x = 3y - 16 \)
   (E) \( x = \frac{y}{3} + 16 \)

2. Ellipses, parabolas, and hyperbolas are all examples of
   (A) closed curves.
   (B) circular segments.
   (C) parabolic sections.
   (D) elliptical sections.
   (E) conic sections.

3. The partial derivative \( \frac{\partial y}{\partial x} \) of \( y = x^2z + 3z^2x + 6(x+z) \) is:
   (A) \( 2xz + 3z^2 + 6 \)
   (B) \( x^2z + 6zx + 6z \)
   (C) \( 2x + 9 \)
   (D) \( 2x + 6zx + 6(x+1) \)
   (E) \( 2x + 6z + 6 \)

4. If bacterial cells divide into two cells every 40 minutes, the number of cells produced from a single cell in 240 minutes is expected to be:
   (A) 6
   (B) 12
   (C) 24
   (D) 32
   (E) 64

5. A bag contains 100 balls numbered from 1 to 100. One ball is removed. What is the probability that the number on this ball is odd or greater than 80?
   (A) 0.1
   (B) 0.5
   (C) 0.6
   (D) 0.7
   (E) 0.8