1. How many bits/bytes are needed to store a color picture that is 200 pixels wide and 300 pixels high? Assume color is represented using the RGB technique and that no special compression technique is used. Express your answer as approximate number of KB or MB, etc., as appropriate. Show your work and fill in the answers below:

   # pixels
   60000
   200x300 = 60,000

   # bytes
   180 KB
   60,000 x 3 = 180,000 bytes ≈ 180 KB

   # bits
   1.4MBits
   180,000 x 8 = 1,440,000 bits ≈ 1.4 MBits

2. Consider the following applet code for drawing a simple emoji:
   ```java
   page.setColor(Color.yellow);
   page.fillOval(100, 100, 60, 60);   // face
   page.setColor(Color.black);
   page.drawArc(110, 130, 40, 20, 190, 160); // mouth
   page.fillOval(120, 120, 5, 5);    // left eye
   page.fillOval(135, 120, 5, 5);    // right eye
   ```

   a) Look code for the mouth. Is it smiling or frowning or neither? **Smiling**
   b) Sketch the image below.
   c) Fill in the missing code for the right eye.