- 1. Write declarations for storing the following quantities. Choose between integers and floating-point numbers. Declare constants when appropriate.
 - a. The number of days per week
 - b. The number of days until the end of the semester
 - c. The number of centimeters in an inch
 - d. The height of the tallest person in your class, in centimeters
- 2. Write the following Java expressions in mathematical notation.
 - a. dm = m * (Math.sqrt(1 + v / c) / Math.sqrt(1 v / c) 1);
 - b. z = Math.sqrt(x * x + y * y);
- 3. Write the following mathematical expressions in Java.

a.
$$FV = PV \cdot (1 + \frac{INT}{100})^{YRS}$$

b.
$$G = 4\pi^2 \frac{a^3}{p^2(m_1 + m_2)}$$

- 4. What are the values of the following expressions, assuming that n is 17 and m is 18?
 - a. n/10+n%10
 - b. n % 2 + m % 2
 - c. (m + n) / 2
 - d. (m + n) / 2.0
 - e. (int) (0.5 * (m + n))
 - f. (int) Math.round(0.5 * (m + n))