1. Find the number of square centimeters in the area of a triangle with a base of 10 centimeters and an altitude of 5 centimeters.

2. The area of a triangle is 24 square centimeters and the base measures 6 centimeters. Find the number of. centimeters in the measure of the altitude to that base.

3. The area of a triangle is 40 square centimeters. If the base of the triangle is 10 centimeters, find the number of centimeters in the height.

4. The base of a triangle is 4 units more than the height. The area of the triangle is 48 square units. If the height is represented by x, which equation could be used to find the measure of the height of the triangle?

   (1) $x(x + 4) = 48$ (2) $\frac{1}{2} x(x + 4) = 48$
   (3) $\frac{1}{2} (2x + 4) = 48$ (4) $\frac{1}{2}x(x - 4) = 48$

5. What is the area of the triangle whose vertices are (3,1), (7,1), and (6,4)?

6. In the accompanying diagram, $\overleftarrow{AOB}$ is a straight line, m∠$AOD = 3x - 12$, and m∠ $BOD = x$. What is the value of x?