Trigonometry HW 2

Find the missing sides in the following right triangles.

1)

2)

4)

5)
$$\sqrt{-(-9)^2} = ?$$
 (Note: $i = \sqrt{-1}$)

(a) 9*i*

- (b) 9 + i
- (c) 9 i
- (d) 9
- (e) -9

Challenge

In the figure below XYZ is an equilateral triangle. YW is perpendicular to XZ and has a length of $2\sqrt{3}$ inches. What is the area, in square inches, of $\triangle XYZ$? (*Hint*: Recall that the area of a triangle is $\frac{1}{2}bh$ where b is the base of the triangle and h is the height of the triangle.)

