Sec 9.7
pg. 408-409
\#1-4, 7-10
Find the missing side

1. $a$.

(7)

b.


10
e.

c.

\#2 Find the missing sides
1

c.

\#3 Solve for the variable in the equilateral $\Delta$ 's
$a$.


4
b.

c.

\#4 Solve for the variable
$a$.

b.

C.

d.

\#7 Find the altitude of an equilateral triangle if a side is 6 mm long.
\#8

$$
\text { Given: } \begin{aligned}
\overline{A C} & \perp \overline{B C} \\
\overline{C D} & \perp A B \\
\Varangle B & =30^{\circ} \\
B C & =8 \sqrt{3}
\end{aligned}
$$

Find $C D$
$4 \sqrt{3}$

\#9 TRWX is a kite

\#10
a. Find the ratio of the longer leg to the hypotenuse in a $30-60-90$ triangle

$$
\frac{x \sqrt{3}}{2 x}=\frac{\sqrt{3}}{2}
$$


b. Find the ratio of one of the legs to the hypotenuse in a 45-45-90 triangle.

$$
\frac{x}{x \sqrt{2}}=\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}=\frac{\sqrt{2}}{2}
$$



