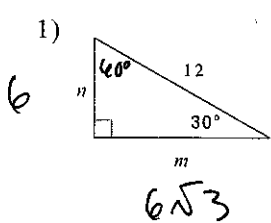
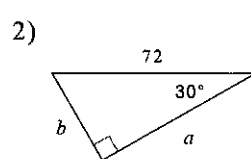


30-60-90 Triangle Practice

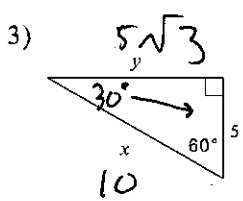
Find the missing side lengths. Leave your answers as radicals in simplest form.



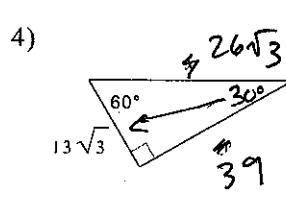
30	60	90
x	$x\sqrt{3}$	2x
6	$6\sqrt{3}$	12



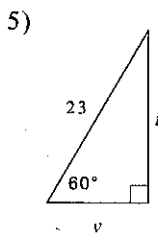
30	60	90
x	$x\sqrt{3}$	2x
36	$36\sqrt{3}$	72



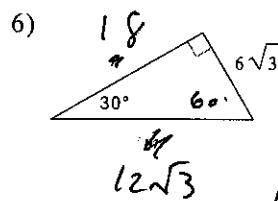
30	60	90
x	$x\sqrt{3}$	2x
5	$5\sqrt{3}$	10



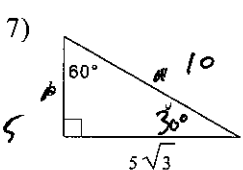
30	60	90
x	$x\sqrt{3}$	2x
$13\sqrt{3}$	$13\sqrt{3} \cdot \sqrt{3}$ 13 · 3 39	$26\sqrt{3}$



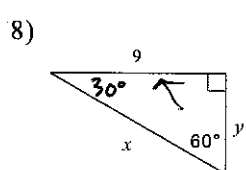
30	60	90
x	$x\sqrt{3}$	2x
$\frac{23}{2}$	$\frac{23}{2}\sqrt{3}$	23



30	60	90
x	$x\sqrt{3}$	2x
$6\sqrt{3}$	$6\sqrt{3} \cdot \sqrt{3}$ 6 · 3 18	$12\sqrt{3}$

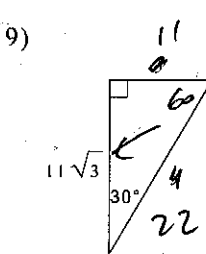


30	60	90
x	$x\sqrt{3}$	2x
5	$5\sqrt{3}$	10

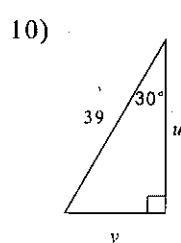


30	60	90
x	$x\sqrt{3}$	2x
$3\sqrt{3}$	9	$6\sqrt{3}$

$$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{9}{\sqrt{3}} \quad \frac{\sqrt{3}}{\sqrt{3}} = \frac{9\sqrt{3}}{3} = 3\sqrt{3}$$

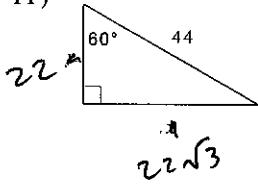


30	60	90
x	$x\sqrt{3}$	2x
11	$11\sqrt{3}$	22



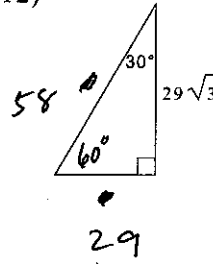
30	60	90
x	$x\sqrt{3}$	2x
$\frac{39}{2}$	$\frac{39}{2}\sqrt{3}$	39

11)



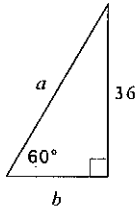
30	60	90
x	x√3	2x
22	22√3	44

12)



30	60	90
x	x√3	2x
29	29√3	58

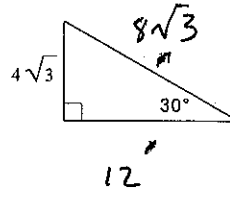
13)



30	60	90
x	x√3	2x
12√3	36	24√3

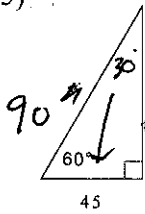
$$\frac{36\sqrt{3}}{3} = \frac{\sqrt{3}}{\sqrt{3}} \cdot \frac{36}{\sqrt{3}} = \frac{x\sqrt{3}}{\sqrt{3}}$$

14)



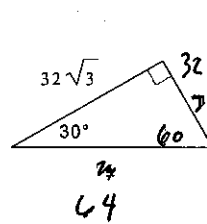
30	60	90
x	x√3	2x
4√3	4√3√3	8√3
	4·3	
	12	

15)



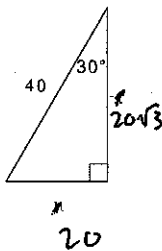
30	60	90
x	x√3	2x
45	45√3	90

16)



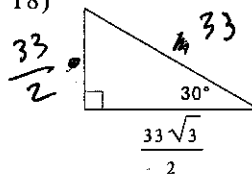
30	60	90
x	x√3	2x
32	32√3	64

17)



30	60	90
x	x√3	2x
20	20√3	40

18)



30	60	90
x	x√3	2x
33/2	33√3/2	33