

5.1 Review Radicals and Triangle Properties

Simplify.

1) $\sqrt{256}$

2) $\sqrt{81}$

3) $\sqrt{392}$

4) $-2\sqrt{200}$

5) $3\sqrt{42}$

6) $9\sqrt{360}$

7) $\sqrt{30} \cdot \sqrt{30}$

8) $\sqrt{5} \cdot 3\sqrt{5}$

9) $4\sqrt{15} \cdot 2\sqrt{15}$

10) $\sqrt{24} \cdot \sqrt{12}$

11) $\frac{\sqrt{4}}{5\sqrt{6}}$

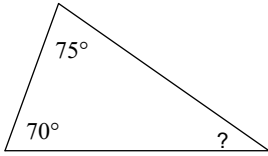
12) $\frac{3\sqrt{4}}{4\sqrt{5}}$

13) $\frac{\sqrt{5}}{\sqrt{2}}$

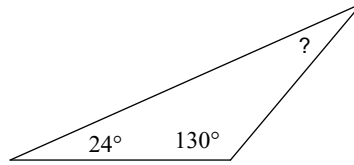
14) $\frac{2\sqrt{2}}{3\sqrt{6}}$

Find the measure of each angle indicated.

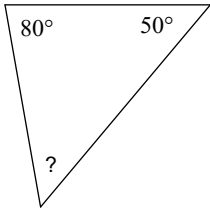
15)



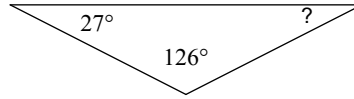
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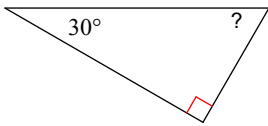
17)



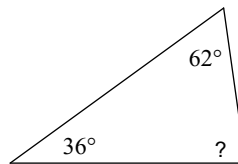
18)



19)

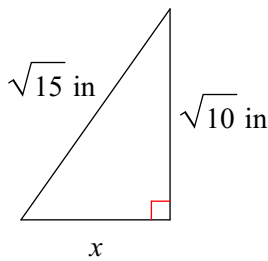


20)

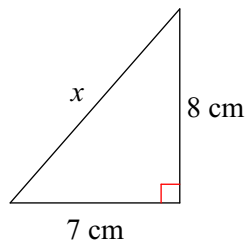


Find the missing side of each triangle. Leave your answers in simplest radical form when necessary.

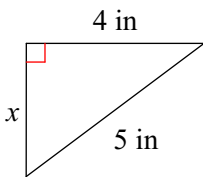
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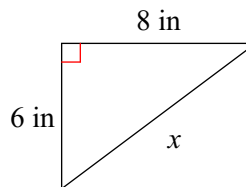
22)



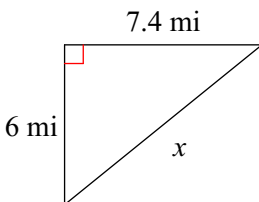
23)



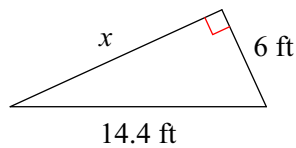
24)



25)



26)



27) $a = \sqrt{6}$ in, $c = 2\sqrt{3}$ in

28) $a = 5$ ft, $b = 13$ ft