

Simplifying Radicals and Pythagorean Theorem

Simplify.

1) $\sqrt{200}$

2) $\sqrt{320}$

3) $\sqrt{147}$

4) $\sqrt{8}$

5) $\sqrt{250}$

6) $\sqrt{144}$

7) $\sqrt{40}$

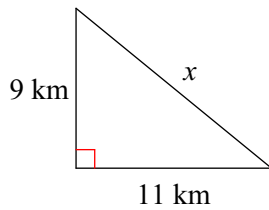
8) $\sqrt{648}$

9) $\sqrt{192}$

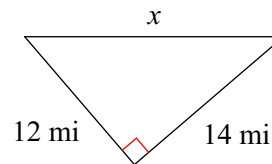
10) $\sqrt{112}$

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

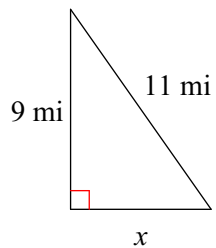
11)



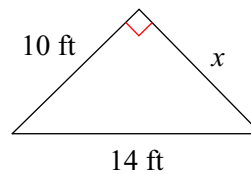
12)



13)



14)



Simplifying Radicals and Pythagorean Theorem

Date _____ Period _____

Simplify.

1) $\sqrt{200}$

$10\sqrt{2}$

2) $\sqrt{320}$

$8\sqrt{5}$

3) $\sqrt{147}$

$7\sqrt{3}$

4) $\sqrt{8}$

$2\sqrt{2}$

5) $\sqrt{250}$

$5\sqrt{10}$

6) $\sqrt{144}$

12

7) $\sqrt{40}$

$2\sqrt{10}$

8) $\sqrt{648}$

$18\sqrt{2}$

9) $\sqrt{192}$

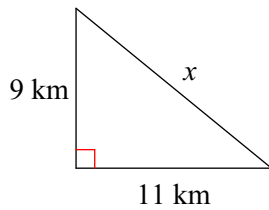
$8\sqrt{3}$

10) $\sqrt{112}$

$4\sqrt{7}$

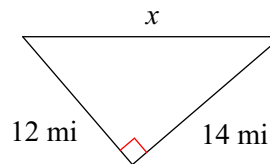
Find the missing side of each triangle. Leave your answers in simplest radical form.

11)



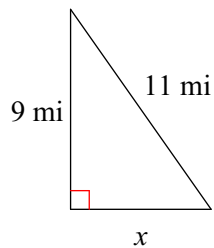
$\sqrt{202} \text{ km}$

12)



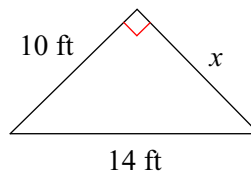
$2\sqrt{85} \text{ mi}$

13)



$2\sqrt{10} \text{ mi}$

14)



$4\sqrt{6} \text{ ft}$