Algebra II

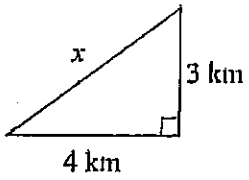
Name_____ ID: 1

Roots and Radicals Review

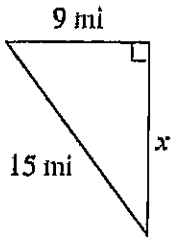
Date_____ Period____

Find the missing side of each triangle.

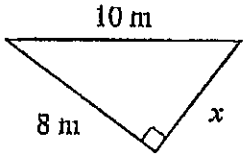
1)



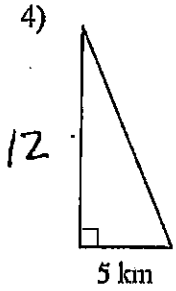
2)



3)

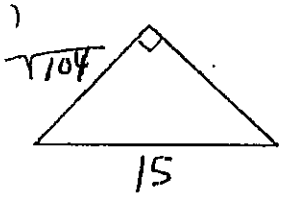


4)

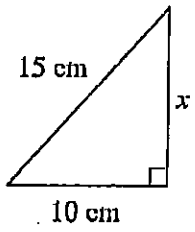


Find the missing side of each triangle. Leave your answers in simplest radical form.

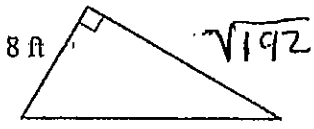
5)



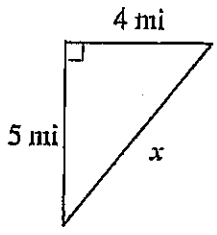
6)



7)



8)



Review

1) $\sqrt{2} \cdot \sqrt{2}$

2) $\sqrt{2} \cdot \sqrt{6}$

3) $2\sqrt{3} \cdot 2\sqrt{2}$

4) $2\sqrt{18} \cdot 3$

5) $\sqrt{24} \cdot \sqrt{2}$

6) $2\sqrt{x} \cdot 4\sqrt{x}$

7) $\frac{\sqrt{18}}{\sqrt{3}}$

8) $\sqrt{\frac{2}{3}} \cdot \sqrt{\frac{3}{2}}$

9) $\frac{\sqrt{27a^2}}{\sqrt{3a^2}}$

Review Add and Subtract Square Roots

Simplify.

1) $2\sqrt{2} + 6\sqrt{2}$

2) $8\sqrt{5} + 5\sqrt{5}$

3) $-\sqrt{5} + \sqrt{5}$

4) $6\sqrt{3} - 5\sqrt{3}$

5) $\sqrt{18} + \sqrt{2}$

6) $2\sqrt{8} - \sqrt{2}$

7) $6\sqrt{3} - 4\sqrt{27}$

8) $\sqrt{5} - \sqrt{3} + 3\sqrt{5}$

9) $\sqrt{24} + 5\sqrt{6} - \sqrt{2}$

10) $\sqrt{2} - 6\sqrt{5} + 5\sqrt{2}$