Name		Hour	Date	
Review				Form G
Lessons 6-1 through 6-4				
Do you know HOW Find all the real roots.	I?			
<b>1.</b> √36	<b>2.</b> $\sqrt{0.25}$	<b>3.</b> ∛–64	<b>4.</b> $\sqrt[3]{\frac{8}{125}}$	
Simplify each radical expression. Use absolute value symbols when needed.				

**5.** 
$$\sqrt{25y^2}$$
 **6.**  $\sqrt{49x^4}$  **7.**  $\sqrt[3]{-8x^9}$  **8.**  $\sqrt[3]{-0.125y^6}$ 

Find the two real solutions of each equation.

**9.**  $9x^2 - 4 = 0$  **10.**  $x^4 = 0.0016$ 

Multiply or divide and simplify. Assume that all variables are positive.

**11.** 
$$\sqrt[3]{2x} \bullet \sqrt{18xy^2}$$
 **12.**  $\frac{\sqrt[3]{4xy^7}}{\sqrt[3]{32x^4y^4}}$ 

Simplify. Rationalize all denominators.

**13.** 
$$\sqrt[3]{180} + \sqrt{45} - 8\sqrt{20}$$
 **14.**  $\frac{5 + \sqrt{3}}{2 - \sqrt{3}}$ 

Simplify each expression.

**15.**  $(-125)^{\frac{2}{3}}$  **16.**  $81^{\frac{3}{4}}$  **17.**  $32^{0.6}$  **18.**  $49^{1.5}$ 

## Do you UNDERSTAND?

**19. Geometry** What is the perimeter of the triangle at the right?

**20. Reasoning** Solve. 
$$\sqrt{75} + \sqrt{3x} = 12\sqrt{3}$$

