Simplifying Radical Expressions Homework Day Three

$1.\sqrt{108}$	2. $5\sqrt{54}$			$3.3\sqrt{18} + 2\sqrt{50}$
$= 6\sqrt{3}$	= 1	15√6		$=19\sqrt{2}$
$4. 4\sqrt{12} + 3\sqrt{3}$ $= 11\sqrt{3}$	5.5	Simplify the root th = $15\sqrt{27}$	ien estimate it ≈ 39 .7	z. 3√ <u>175</u>
6. Simplify the root th	en estimate it.	$3\sqrt{30} + 2\sqrt{120}$ $= 7\sqrt{30}$	≈ 38 .3	

7. The bottom of a ladder must be placed 6 feet from a wall. The ladder is 8 feet long. How far above the ground does the ladder touch the wall? Give your answer in simplest radical form and estimate the root.

 $= 2\sqrt{7}$ feet ≈ 5.3 feet

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4. $4\sqrt{12} + 3\sqrt{3}$ 5. Simplify the root then estimate it. $3\sqrt{175}$

6. Simplify the root then estimate it. $3\sqrt{30} + 2\sqrt{120}$

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