

Name _____

Sect. 9.3, 9.4

For Instructor use only →

Quiz pts.	
Attendance	
Total	

M T W F

(1) [4 pts.] Simplify each expression.

(a) $4^{1/2}$ (b) $\left(\frac{1}{4}\right)^{1/2}$ (c) $(-125)^{1/3}$ (d) $\left(\frac{27}{8}\right)^{-4/3}$

(2) [4 pts.] Perform the operations. Write your answer without negative exponents.

$$\frac{9^{4/5}}{9^{3/5}} + 6^{-2/3}6^{-4/3}$$

(3) [4 pts.] Simplify.

$$\frac{\sqrt{98x^3}}{\sqrt{2x}} + \frac{\sqrt[3]{64}}{\sqrt[3]{8}}$$

(4) [4 pts.] Simplify and combine like radicals.

$$\sqrt{98} - \sqrt{50} - \sqrt{72}$$