

Quiz #8: Take-Home

Directions: Please show all your work since partial credit is given. Answers without the necessary work will receive no credit. And remember, have fun! Quiz is due no later than **Monday, November 9, at the beginning of class.**

1. Simplify the following expressions. Please give exact answers.

a) $-3\sqrt{100}$ _____

b) $4\sqrt{36}$ _____

c) $8\sqrt{144} - 11\sqrt{49}$ _____

d) $\sqrt{\frac{64}{169}}$ _____

2. Write each of the following ratios as a fraction in lowest terms. None of the answers should contain decimals.

a) 250 to 100 _____

b) $\frac{5}{7}$ to $\frac{1}{7}$ _____

c) 0.4 to 10 _____

d) 2.5 to $\frac{5}{3}$ _____

3. At the beginning of a trip, the odometer on a car read 32,567.2 miles. At the end of the trip, it read 32,741.8 miles. If the trip took 4 hours, what was the average rate of the car in miles per hour (mph)?
