

1. Charles saw advertisements for two cellular telephone companies. Keep-in-Touch offers phone service for basic fee of \$20.00 a month plus \$0.10 for each minute used. ChitChat has no monthly basic fee but charges \$0.45 a minute. Both companies use technology that allows them to charge for the exact amount of time used; they do not “round up” the time to the nearest minute, as many of their competitors do. Compare these two companies’ charges for the time used each month. Show your work.

(Hint: vary the amount of minutes for the month)

2. What is the factor of 50, other than 1, whose square root is also a factor of 50? Explain your answer.