### Lesson 21 Practice Problems

1. Solve for .
2. Solve  for .
3. Show that the equation is equivalent to for all values of not equal to 0 or -50. Explain each step as you rewrite the original equation.
4. Kiran jogs at a speed of 6 miles per hour when there are no hills. He plans to jog up a mountain road, which will cause his speed to decrease by miles per hour. Which expression represents the time, , in hours it will take him to jog 8 miles up the mountain road?
5. The rational function can be rewritten in the form , where and are constants. Which expression is the result?

* (From Unit 2, Lesson 18.)

1. For each equation below, find the value(s) of that make it true.

* (From Unit 2, Lesson 20.)

1. A softball player has had 8 base hits out of 25 at bats for a current batting average of .

* How many consecutive base hits does she need if she wants to raise her batting average to .400? Explain or show your reasoning.
* (From Unit 2, Lesson 20.)



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