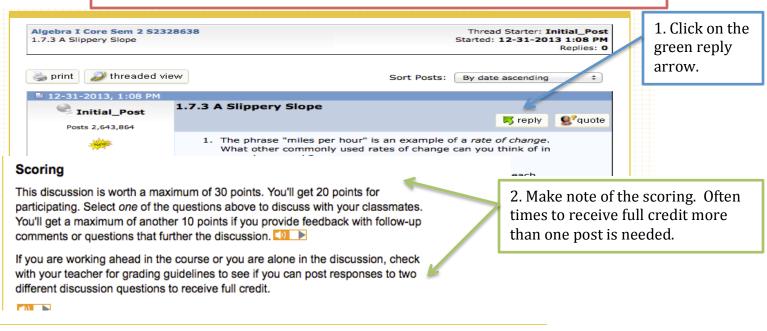


How to participate in a Discussion



Reply to an Existing Message

Subject

The message you are replying to: 1.7.3 A Slippery Slope

Initial_Post wrote the following post at 12-31-2013 1:08 PM:

- The phrase "miles per hour" is an example of a rate of change. What other commonly used rates of change can you think of in everyday speech?
- 2. Can you construct three lines that are perpendicular to each other?
- 3. In the Swiss Alps, Mt. Pilatus rises to a dizzying height of 7,000 feet. In the 19th century, Swiss engineers created a special type of railway that could climb to the mountain's peak. The first train climbed the mountain on June 4, 1899. A steam-powered engine carried passengers slowly upward on a track with an average gradient (or slope) of 42% and a maximum gradient of 48%. At this nerve-wracking angle, for every 100 feet that the train traveled horizontally, it also climbed 48 feet upward. A modern railcar built for this slope is not rectangular, but instead looks more like a rhombus. Why do you think rhombus-shaped railcars are used?
- 3. Enter your post responding accordingly to the discussion question(s).

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4. Click the post button at the bottom of your screen to complete your post.