

1. A company has determined the demand curve for their product is $q = \sqrt{5000 - p^2}$, in millions of items, where p is the price in dollars at time t , in weeks. If weather conditions are driving the price up \$2 a week, what is happening to the demand rate when the price is \$40?
 - (a) demand is falling by approximately 466.5 million items per week
 - (b) demand is increasing by approximately 466.5 million items per week.
 - (c) demand is falling by approximately 1.37 million items per week
 - (d) demand is increasing by approximately 1.37 million items per week