





Math 10/11 Honors Section 2.3 Geometric Series



Given the following infinite geometric sequence, what should the value of " $\rm R$ " be so that the sum will be 20?

 $a + ar + ar² + ar³ + \dots = 20$ i) r = 2 $ii) r = \frac{7}{6}$ iii) r = 1.25

iv) r = 0.80

EX: A MOVIE IN A THEATRE GENERATE \$250,000 IN REVENUE IN THE FIRST MONTH OF ITS SHOWING. EACH MONTH, SALES FROM THAT MOVIE DROP BY 15%. IF THE MOVIE IS SHOWN FOR A LONG TIME, WHAT IS THE TOTAL REVENUE GENERATED?