

Algebra II

V-3

Inverse and Joint Variation

Translate the following into mathematical equations.

y varies directly as x .

y varies inversely as x .

a varies jointly as b and c .

Solve. (pg. 360)

- *1) Suppose r varies jointly as s and t and inversely as the square of v .
When $t = 3$, and $s = 18$, and $v = 5$, $r = 3.78$. Find r when $t = 4$,
 $s = 12$, and $v = 4$.

Solve. (pg 361)

- 1) The frequency of a radio signal varies inversely as the wave length. A signal of frequency 1200 kilohertz (kHz), which might be the frequency of an AM radio station, has wave length 250 m. What frequency has a signal of wave length 400 m?

Assignment:

Pg. 360

1-10 all,

Pg. 361 (wp)

2-10 even,

11, 12

hint: for #6 on the word problems,
read the instructions on the
previous page: