

New Concepts

- Parallel
- Skew
- Transversal
- Corresponding
- Alternate Interior
- Same-Side Interior

Problem Set #11

“The mathematician’s patterns, like the painter’s or the poet’s must be beautiful; the ideas like the colours or the words, must fit together in a harmonious way. Beauty is the first test: there is no permanent place in the world for ugly mathematics.”

- G.H. Hardy

New Postulates and Theorems

- Theorem 12 – If two parallel planes are cut by a third plane, then the lines of intersection are parallel

Exercises:

p.76 #1-6, 22-39, 40

Problems:

(Your goal for these problems is not simply to solve, but rather to write an elegant solution to justify your result. It should be written well enough so that it can be shown to your peers and they can reason through your process without the need for you to add comment)

11-1 How many fluid ounces in a quart?

43210 contains the number “32.” 43120 does not. How many 5 digit integers contain the number “32.”

11-2 My Address

The number of my street address is a 3-digit number and the product of the digits is 140. If the digits appear in increasing order, what is my street address?