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Course: MAT1301-14A-1A16-S2
Book: Pirnot: Mathematics All Around,
5e

Assignment: Unit V Homework

33. Assume that five men and five women are to sit in a row of ten chairs. Use the fundamental counting principle to solve the following questions.

In how many ways can these people sit if men and women must alternate?

There are different ways.

In how many ways can these people sit if all men must sit together and all the women must sit together?

There are different ways.

In how many ways can these people sit if all the women must sit together but no woman sits on an end seat?

There are different ways.

34. Simplify.

$$(10 - 4)!$$

$$(10 - 4)! = \text{}$$

35. Evaluate.

$$\frac{16!}{13!}$$

The solution is .

36. Evaluate the expression.

$$P(6,2)$$

$$P(6,2) = \text{}$$