Let D_n = the number of diagonals for an n-gon (polygon with n sides)

Find the number of diagonals for a doedecagon (12-gon)? Next, develop a rule for determining the number of diagonals for any polygon. In particular develop a formula for determining D_n when given a value for n.

Understand the Problem:

a. What is a diagonal of a polygon?

b. Show how to determine D_4 and D_5.

Make a Plan: How will you proceed to address this problem?

Carry Out Your Plan:

Look Back: