

Graph Theory Solutions to Midterm 2

You must show all your work. The number of points earned on each problem will depend upon how well you have justified your solution. Choose nine of the following problems and complete them. Write the number of the chosen problems in the table above and return the cover sheet with your test.

1. Prove that $r(3, n) \leq \frac{n(n+1)}{2}$ for all $n \in \mathbb{Z}^+$.
-

We use induction on n .

Assume the statement holds for all integer values less than n .

Using the table on page 8-4, we see that the statement holds for $n = 1, \dots, 9$.

Using Theorem 4.3.2, we have

$$n + r(3, n-1) \leq n + \frac{(n-1)(n-2)}{2} = \frac{2n + n^2 - 3n + 2}{2} =$$

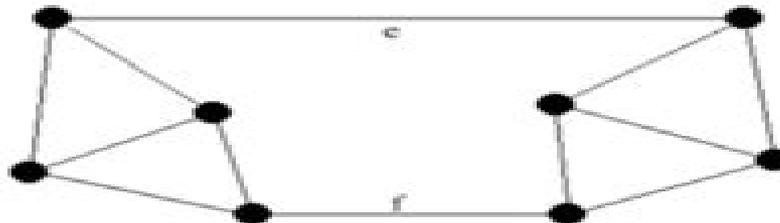
$$\frac{n^2 - n + 2}{2} = \frac{(n-2)(n+1)}{2}$$

$$r(3, n) \leq r(2, n) + r(3, n-1) = n + r(3, n-1) \leq n + \frac{(n-1)n}{2} =$$

$$\frac{n(n+1)}{2}$$

by the inductive hypothesis.

2. Find the number of spanning trees in the graph below.



Graph Theory Problems And Solutions

Tao Wei



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