

Figure 1.2: The graph G in Exercise 2

4. **Proof.** Assume, to the contrary, that G has at most $k+2$ vertices of degree $k+1$, at most k vertices of degree $k+2$ and at most $k+1$ vertices of degree $k+3$. Since the order of G is $n = 3k+3$, it follows that G has exactly $k+2$ vertices of degree $k+1$, exactly k vertices of degree $k+2$ and exactly $k+1$ vertices of degree $k+3$. In each case, G has an odd number of odd vertices, which is impossible. ■
5. **Proof.** Let G be a graph with r vertices of degree r , $r+1$ vertices of degree $r+1$ and $r+2$ vertices of degree $r+2$. Thus, the order of G is $3r+3$. First, we show that r is odd. Assume, to the contrary, that r is even. Then G contains an odd number $r+1$ of odd vertices, which is impossible by Corollary 1.5. Thus, r is odd and G contains $2r+2$ vertices of odd degree. ■
6. Let G be the graph of order $2k$ with $V(G) = \{u_1, u_2, \dots, u_k, v_1, v_2, \dots, v_k\}$. For each i with $1 \leq i \leq k$, join each vertex u_i to the i vertices v_1, v_2, \dots, v_i . Then $\deg u_i = i$ and $\deg v_i = k+1-i$ for $1 \leq i \leq k$.

Section 1.3. Isomorphic Graphs

7. (a) $G_1 \cong G_2$.
(b) $H_1 \not\cong H_2$. For example, H_1 has two vertices of degree 4, while H_2 has three vertices of degree 4.
8. (a) There are 34 such graphs, each of which has size m for some m with $0 \leq m \leq 10$. By using complementary graphs the number of graphs of order 5 and size m equals the number of graphs of order 5 and size $10-m$ (see Figure 1.3).
(b) The minimum size of a graph G of order 5 such that every graph of order 5 and size 5 is isomorphic to some subgraph of G is 7. First, observe that the graph $G = P_5 \vee K_1$ has the desired property. If the minimum size were 6, then G must consist of a 5-cycle C and an edge joining two

Graphs And Digraphs Solution Manual

David Kirk



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