**Exercise Sheet for Math151**

**Book: Discrete Mathematics and Its Applications (Sixth Edition)**

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**1.1:** 1-2-3-4(c,f,h,g)-5(b,c,f,g)-7(b,d,f,g)-10(a,c,e)-12(a,c)-13(b,d)-15(a,d)-24(all parts)-25(all parts)-28(c,d)-30(d,e)-31(c,f)

**1.2:** 1-2-3(a,b)-4-5-6-7(a,c)-9(c, d)-10(c)-11(the same parts of 9)-12(the same parts of 10)-13(b)-14-16-20-22-24-26-28-29-32-34-58-59

**1.3:** 1-2-3-11(e,f)-12(g,c,e)-16

**1.5**: 1-2

باقي التمارين من الكتاب القديم ص32 بين ما اذا كان الشكل الحجي صحيح ام لا (11)-(21) اختياري

**1.6:** 1-8-10-11-12-17(a,b)-20-21-26-28-29-31-32-33-34-36

**1.7:** 1-2-3-4-7-8-13(a,c)-16-37(a,c,d)

**2.1:** 1-2-4-5(a,d,f,c)-7(d,f)-9(a,b,f)-12-13-19(b,c)-21(a,b)-28-36(a,c)

**2.2:** 1-3-4-5-6-10-11(a)-15-16(a,d)-17-25(a,b,d)-28(b,c)-35-47-57-59

**4.1**: 3,4,5,6,7,8,9,11,18,21,28,31,32,33,34,38,40,42,43,47,48,49.

**4.2**:3,4,9,12,29,30.

**8.1**:1,3,6,7,8,9,16,24,25,28,30,32,34,39,48,49,50,51,52,54.

**8.3**:18,19,22,23,24,25,26,27,28.

**8.4**:1,2,3,4,5,6,7,8,9,19,22,23,24,29.

**8.5**:1,3,9,15,16,21,22,23,26,28,35,36,39(a),40(a),41,42,46,48,55,56,57.

**8.6**:1,5,6,9,10,11,14,15,16,17,18,20,21,22,23,24.

**9.2**:1,2,3,4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,26,29,30,32,33,34,35,42,43,44,45,47,48,49,53,54,55,56,57.

**9.3**:45,46,50,51,53,54,55,56.

**9.4**:1,2,3,4,5,6,26

**9.7**:1,2,3,4,5,6,7,8,9,11,12,13,14,20,21,22,23,24,25.

**10.1**:1,2,3,4,5,6,7,8,9,10,11,16,17,19,20

**11.1**:1,2,3(a,b),4(a,b),5(b,d),6(c,d),11,28,36,37

**11.2**:1(b,c),2(a,d),3(a,d),7c.

**11.3**:1,5,6

**11.4**:1(a,b),2c,3,4c,6(a,b),12(b,c,d),13a.