BINOMIAL EXPANSION

1. Expand the following.
   a. $(a + b)^0$
   b. $(a + b)^1$
   c. $(a + b)^2$
   d. $(a + b)^3$
   e. $(a + b)^4$
   f. $(a + b)^5$
   g. $(a+b)^6$
   h. $(a+b)^7$
   i. $(a+b)^8$
   j. $(a+b)^9$
2. Use the pascal triangle to expand these.
   a. $(a - b)^3$
   b. $(2x + y)^3$
   c. $(1 - 2b)^4$
   d. $(2x + 3y)^4$
   e. $(x - 3y)^6$
   f. $(1 + \sqrt{5})^3$
   g. $(1 - \sqrt{5})^4$
   h. $(1 + 2\sqrt{3})^4$
   i. $(2 - 3\sqrt{7})^5$
3. 3. Expand each of the following.
   a. $(x + 1/2)^3$
   b. $(y + 1/2\ y)^4$
   c. $(2x - 3)^4$
   d. $(3x - 1/3\ y)^3$
4. Fine the terms as asked below.
   a. Final term of $(2 + 3x)^3$
   b. The 7^{th} term of $(2 + x^2/2)^{11}$
   c. The 3^{rd} term of $(a + b)^5$
   d. The last term of $(2 - 3\sqrt{7})^5$
   e. The 2^{nd} term of $(2x - 3)^4$
   f. The 1^{st} term of $(x + 1/2)^3$ and $(y + 1/2\ y)^4$
5. Draw a pascal triangle up to R = 10(R_{10}).