

MR22-HW#29

711:3, 4, 12, 18

706:5ab

707:6

700:8

699:3c

713:15

714:18b, 19b

QUESTIONS.

1) 360

2) $\frac{3}{5}$

3) $\frac{297}{625}$

4) $X^7 + 7X^6Y + 21X^5Y^2 + 35X^4Y^3 + 35X^3Y^4 + 21X^2Y^5 + 7XY^6 + Y^7$

5) ${}_{15}C_2 X^{13} Y^2 = 105 X^{13} Y^2$

6) $X^6 + 6X^5Y + 15X^4Y^2 + 20X^3Y^3 + 15X^2Y^4 + 6XY^5 + Y^6$

7) 6TH TERM, 7TH TERM = $1792a^2b^6$

8) 0.3125

9) $\frac{79}{4096} \approx 0.0193$

10) 0.0011

11) ${}_3C_1 (0.2)^1 (0.8)^2 \approx 0.3840$

12) $\sum_{r=10}^{15} {}_{15}C_r \left(\frac{1}{2}\right)^r \left(\frac{1}{2}\right)^{15-r} = \sum_{r=10}^{15} {}_{15}C_r \left(\frac{1}{2}\right)^{15}$