

Algebra-English-Session1-2021-Prac

Question	Answer
1	$\frac{3\sqrt{3}}{4}$
2	${}^4C_3 + {}^4C_4$
3	${}^{15}C_5$
4	30
5	$\begin{pmatrix} \cos 2\theta & -\sin 2\theta \\ \sin 2\theta & \cos 2\theta \end{pmatrix}$
6	1
7	$-48a^2$
8	The term containing x^6
9	168
10	$\pm \frac{1}{2}$
11	$\begin{vmatrix} 1 & y & y \\ 0 & x-y & 0 \\ 0 & 0 & x-y \end{vmatrix}$
12	greater than its distance from the plane $x y$
13	-1 or 9

14	5
15	$\frac{-7}{2}$
16	$6e^{\frac{5}{6}\pi i}$
17	63
18	15
19	6
20	$r - 1$
21	$\begin{bmatrix} 10 & 11 \\ 11 & 10 \end{bmatrix}$
22	$2 < Rk(A^*) < 4$
23	16
24	$\vec{r} = (2, 1, -3) + t(2, -1, 2)$
25	right quadrilateral pyramid.

