(04) :

Z

Z^2 : $5x - 7y = 175$ .... (1)

1) $(x_0 ; y_0)$ (1) : $x_0^2 + 7 y_0 = -3$.

2) (1) .

(05) :

$p(z)$ z : $p(z) = z^3 - 12z^2 + 48z - 128$.

1) (a b : $p(z) = (z - 8)(z^2 + az + b)$.

(C $p(z) = 0$.

2) $(o; \vec{i} ; \vec{j})$ A B C :

$z_1 = 2 - 2\sqrt{3}\,i$ $z_2 = 2 + 2\sqrt{3}\,i$ $z_3 = 8$.

($\dfrac{z_1 - z_3}{z_2 - z_3}$.

(A B .

(05) :

$(O; \vec{i}; \vec{j}; \vec{k})$: $A(0 ; 2 ; 2)$ $B(1 ; 4 ; 3)$.

1) (AB) .

2) (AB) (P) $x - 3y - 2z + 3 = 0$.

3) (Q) $x + 2y + z = 0$.

((AB) (Q) .

((Δ) (P) (Q) .

$f(x) = \dfrac{1}{2}\left(x + \sqrt{x^2 - 4}\right)$: $]-\infty;-2] \cup [2;+\infty[$ f

$\left(o;\vec{i};\vec{j}\right).$ (C)

(1 f 2 -2 .

(2 f .

(3 f f .

(4 $f(x) - x$ 0 x $+\infty$.

(5 $(C).$

(6 (C) .

(7 (Δ) (C) $\dfrac{4}{3}$.

(8 $(C).$