1. Halle la solución de la ecuación $z^4 - z^2(2i+3) + 6i$ (10 puntos)

$z^4 = w^2$
$z^2 = w$

$w^2 - w(2i+3) + 6i$

$w^2 + w(-2i-3) + 6i \longrightarrow (w-3)(w-2i) = 0$

w	$-2i$
w	-3

$\Rightarrow (w-3)(w-2i) = 0$

$w = z^2$

$w - 3 = 0$ ó $w - 2i = 0$

$w = 3$ $\quad$ $w = 2i$

$z^2 = 3$ $\quad$ $z^2 = 2i$

$z = \pm\sqrt{3}$ $\quad$ $z = \pm\sqrt{2i}$

$z_1 = \sqrt{3}$, $z_2 = -\sqrt{3}$

$z = \pm\sqrt{2}\cdot\sqrt{i}$

$z_3 = \sqrt{2}\left(\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}i\right)$

$z_3 = 1 + 1i$

$z_4 = \sqrt{2}\left(-\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}i\right)$

$z_4 = -1 + i$