TPK3 N1 Myxobin 991-21 (1) a) Z=-1-i-13 Re = = -1 Im = - \sqrt{3} × 12 1 = 11 +3 = 2 arg 2 = arcty \(\overline{13} - \overline{12} = \overline{12} - \overline{12} = -2 \overline{12} == 2 (cos2 1 - i sin2 1) (S) Z = - \(\sigma + \(\) Re Z = - 13 1m 2 = 1 71 = -3 +1 = 2 arg = = arety - 1 + 11 = - 11 + 11 = 5/1 $\frac{7}{2} = 2\left(\frac{\cos 5ll}{6} + i \sin 5ll}{6}\right)$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$

(a)
$$z = \frac{1}{2} \pm 5i$$
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GEFORCE

$$(y) \times (1-2i) + y(2i-3) = 4-8i$$

 $\times -2i \times + 2iy - 3y = 4-8i$

$$\begin{cases} x - 3y = 4 \\ -2ix + 2iy = -8i \end{cases} \begin{cases} x = 4 + 3y \\ y - x = -4 \end{cases}$$

$$y - y - 3y = -4$$
 $-2y = 0$
 $\begin{cases} y = 0 \\ x = 4 \end{cases}$

$$\frac{2}{2}$$
 $\frac{2}{(-2+i)}$ $\frac{(1-2i)(-2-i)}{(-2+i)}$ $\frac{2}{(-2+i)}$

$$71 = 3\sqrt{2} \left(\cos \frac{1}{4} + i\sin \frac{1}{4}\right) = 3\sqrt{2} e^{-i\frac{1}{4}}$$

$$\begin{aligned}
& z_{1} = -\frac{1}{2} - i \sqrt{3} \\
& z_{2} = \frac{1}{2} - i \sqrt{3} - i = \frac{1}{2} - i = \frac{1}{2} - i = \frac{1}{2} \\
& z_{3} = 2 + 3 - 2 i
\end{aligned}$$

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