3 Complex conjugates

DONE

$$72^{*} = (a+b)(a-b)$$

$$= a^{2}+b^{2}$$

$$\frac{20i}{\sqrt{2}} = \frac{5i+1}{2+i}$$

$$\frac{(5\lambda+1)(2-\lambda)}{(2+\lambda)(2-\lambda)} = \frac{10\lambda^2 - 5\lambda^2 + 2-\lambda}{4 - \lambda^2}$$

$$\frac{9\lambda + 7}{4 + 1} = \frac{7}{5} + \frac{9}{5}\lambda$$

z=2+5i z*=2-5i

$$\begin{array}{ccc}
 & (2+3i) & (2-3i) \\
 & (2-(2+3i))(2-(2-3i)) & = 0
\end{array}$$

$$\begin{array}{cccc}
 & (2+3i) & (2-3i) & = 0
\end{array}$$

$$z^{2}-2(2-3i)-2(2+3i)+(2+3i)(2-3i)=0$$

$$z^{2}-2z+3zi-2z-3zi+4+9=0$$

$$z^{2}-4z+13=0//$$

$$(z^2 - 6z + 10)(z^2 - 8z + 25) = 0$$

2)
$$x = 3+i$$

$$y = 4-3i$$

$$y = 4+3i$$

$$z^{2} - z(3-i) - z(3+i) + (3+i)(3-i) - z(4+3i) - z(4-3i)(4+3i) - z(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)(4-3i)($$