## Answer on Question \#42776 - Math - Calculus

Write a polynomial function of minimum degree with real coefficients whose zeros include those listed. Write the polynomial in standard form.
$4,-8$, and $2+5 i$
help me please and show work

## Answer.

If $2+5 i$ is a zero of a polynomial function then $2-5 i$ is a zero too.
So, the polynomial function of minimum degree with real coefficients is:
$p(x)=(x-4)(x+8)(x-2-5 i)(x-2+5 i)=(x-4)(x+8)\left(x^{2}-4 x+29\right)$.
And finally, $p(x)=x^{4}-19 x^{2}+244 x-928$.

