Please do not write in the margins of the page!
Show all of your work on this paper: you are being graded on your work. No other paper may be used during this quiz.

1) Verify that -2 is a root of the polynomial $p(x)$, and use that information to find all the roots, and then write the complete factorization of $\mathrm{p}(\mathrm{x})$ :
$p(x)=x^{3}-x^{2}-16 x-20$
Roots of $\mathrm{p}(\mathrm{x})$ :

Factorization of $\mathrm{p}(\mathrm{x})$ :
2) Verify that 5 is a root of the polynomial $\mathrm{p}(\mathrm{x})$, and use that information to find all the roots, and then write the complete factorization of $\mathrm{p}(\mathrm{x})$ :
$p(x)=x^{3}-5 x^{2}-7 x+35$
Roots of $\mathrm{p}(\mathrm{x})$ :
Factorization of $\mathrm{p}(\mathrm{x})$ :

