Factor the polynomials

$6z^6 + z^3 - 2$	$32 + 2f^2 - 16f$
$20x + 12x^3 - 31x^2$	$-14x^4 + 2x^8 + 20$
$n^2 - 13nm + 42m^2$	$50ay - 35a^2y + 5a^3y$

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$4v^3 - 8v^2 - 12v$
$4x^3 - 25 x^2 + 6x$