MCR 3U

DATE: _____

FACTORI NG POLYNOMI ALS W ORKSHEET

Factor fully.

1.	$x^2 - 9x$	**2.**	$8m^3 + 4m$	**3.**	$x^2 - 36$
4.	$36 - x^2$	**5.**	$16x^2 - 81$	**6.**	$16x^4 - 81$
7.	$4x^2 - 64m^2$	**8.**	$7x^2 - 7y^2$	**9.**	$m^4 - 25$
10.	$a^4 - 1$	**11.**	$27m^5 - 75m$	**12.**	$2x^2 - 98y^2$
13.	$4x^2 + 4x + 1$	**14.**	$9x^2 - 18xy + 9y^2$	**15.**	$9x^2 + 24x + 16$
16.	$x^4 + 81 + 18x^2$	**17.**	$16x^4 - 40x^2 + 25$	**18.**	$2x^2 - 10x + mx - 5m$
19.	$x^3 - 2x^2 - 4x + 8$	**20.**	$x^3 - 4x^2y + 4xy^2$	**21.**	$3x^3 + 6x^2 + x + 2$
22.	$6x^2 + 21x + 9$	**23.**	$x^4 - 4x^2 + 3$	**24.**	$x^4 - 4x^2 - 32$
25.	$7x^2 + 28x + 21$	**26.**	$8x^3 - 48x^2 + 72x$	**27.**	$3x^2 + 3x - 6$
28.	$3x^2 - 11x - 20$	**29.**	$2x^2 - 5x + 2$	**30.**	$x^2 + 10xy - 75y^2$
31.	$6x^2 + 2x - 2$	**32.**	$8x^2 + 10x - 3$	**33.**	$10x^2 + 21x - 10$
34.	$10x^2 - 17x - 6$	**35.**	$12x^4 + 10x^3 - 8x^2$	**36.**	$15 - 2x - x^2$