April 30, 2012

Alg I

Get out your homework

4/30 - Greatest Common Monomial Factors

A GCF is Greatest Common Factor
The biggest # that goes into the given #'s.

12	21	18	GCF= 3
20	16	24	GCF= 4
$2n$	4	$8n^2$	GCF= 2
$6x^2$ $\times\times$	$9x^3$ $\times\times\times$	$15x\times$	GCF= $3x$

	GCMF
$8n^2+2n+4$	2
$9x^3+6x^2+15x$	3x
$4a^3-8a^2-20a$	4a
$18u^5-12u^3+24u$	6u

Rewrite each as the GCMF multiplied by the left-over polynomial

$8n^2 + 2n + 4 = 2(4n^2 + n + 2)$

$9x^3 + 6x^2 + 15x = 3x(3x^2 + 2x + 5)$

$4a^3 - 8a^2 - 20a = 4a(a^2 - 2a - 5)$

$18u^5 - 12u^3 + 24u = 6u(3u^4 - 2u^2 + 4)$

Factor out the common factor. Make sure the answer i
in descending order of powers

$54x^4 + 81x^3 - 18x$ $= 9x(6x^3 + 9x^2 - 2)$

$-80b^2 - 30b - 100$ $= 10(-8b^2 - 3b - 10)$

$20b + 20b^2 + 12b^6$ $= 4b(3b^5 + 5b + 5)$

$35n^5 + 7n^4 + 70n^8$ $= 7n^4(10n^4 + 5n + 1)$

Homework

Green Miscellaneous WS I

Due Tuesday