Mathematics 10D

4.1 – Common Factoring

Mr. D. Hagen

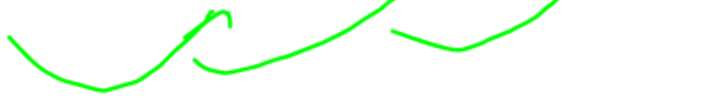
1) $-32a^2 + 32a + 40$

$-8(4a^2 - 4a - 5)$

Never let your leading term be negative.

2) $-45p^3 + 9p^2 + 9p$

$-9p(5p^2 - p - 1)$



3) $18x^3 + 6x^2 - 21x - 7$

$= 6x^2(3x+1) - 7(3x+1)$

$= (3x+1)(6x^2-7)$

4) $12n^3 - 9n^2 - 16n + 12$

$= 3n^2(4n-3) - 4(4n-3)$

$= (4n-3)(3n^2-4)$