Expand then simplify

$(2x-1)(5x+2)-(2x-3)^2+3x(x^2-4x)$

$10x^2+4x-5x-2-(4x^2-12x+9)+3x^3-12x^2$

$10x^2-x-2-4x^2+12x-9+3x^3-12x^2$

$3x^3-6x^2+11x-11$

Factor:

a) $16x^2y-8xy+24xy^2=8xy(2x-1+3y)$

b) $625x^4-256y^4=(25x^2+16y^2)(25x^2-16y^2)$
$=(25x^2+16y^2)(5x+4y)(5x-4y)$

c) $4x^2+12x+9=(2x+3)^2$

d) $6p^2-13p-8$

M -48
A -13
N -16, 3

$6p^2+3p-16p-8$

$3p(2p+1)-8(2p+1)$

$(2p+1)(3p-8)$

Oct 22-10:52 AM

Problems with the homework?

48. $25(2x+1)^2-(9x-1)^2$

$25(4x^2+4x+1)-(81x^2-18x+1)$

$100x^2+100x+25-81x^2+18x-1$

$19x^2+118x+24$

M 456
A 118
N 4 114

456
4 x 114

$19x^2+4x+114x+24$

$x(19x+4)+6(19x+4)$

$(19x+4)(x+6)$

Oct 22-11:21 AM