8A RH HW #

1) $(4x^2+x+7)+(2x^2+3x+1)$

$6x^2+4x+8$

2) $(3x^3-x^2+8)-(x^3+5x^2+4x-7)$

$3x^3-x^2+8 \quad -x^3-5x^2-4x+7$

$2x^3-6x^2-4x+15$

3) $(3x^3+8x)-2(x^3+12)$

$3x^3+8x \quad -2x^3-24$

$x^3+8x-24$

4) $(5-t-t^2)+(9t+t^2)$

$8t+5$

5) $(3p+1)+6(p-8)-(p+2)$

$3p+1 \quad +6p-48-p-2$

$8p-49$

Yes, she is correct. They are all binomials

7) a) Janie x^3

Max x^7

b) x^7+x^3

degree $=7$

c) x^7-x^3

degree $=7$

6) ii. $5x^3\cdot 2x^2-10x^4+3x^5+3x\cdot(-2)x^4$

$10x^5-10x^4+3x^5-6x^5 \rightarrow 7x^5-10x^4$

iii. $(t+2)^2-4t$

$(t+2)(t+2)-4t$

$t^2+2t+2t+4-4t \rightarrow t^2+4$

iv. $5(a-1)-10(a-1)+100(a-1)$

$5a-5-10a+10+100a-100 \rightarrow 95a-95$

v. $(2\pi r-\pi r^2)r-(2\pi r-\pi r^2)2r$

$2\pi r^2-\pi r^3-4\pi r^2+2\pi r^3 \rightarrow \pi r^3-2\pi r^2$