

YEAR 12 Mathematics

Algebra Assignment 3

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Expand and simplify:

1. $5\left(3x-2\right)+6(x-3)$

2. $-x\left(x+5\right)+10\left(x^{2}+2x-1\right)-x(9x+15)$

3. $(x+2)(x-8)$

4. $(7x+13)(5x-4)$

5. $(1-3x)^{2}$

6. $(x^{4}+3)(x^{4}-3)$

7. $\left(x-3\right)\left(x+2\right)-x(x+7)$

8. $(3x-5)^{2}+(x-4)^{2}-10(x+4)(x-1)$

9. $(x-1)(x-8)(x+2)$

10. $(4-x)(x+3)(2x-1)$