Trinomials
Year Ten Advanced Homework Sheet7 Term 1

Name:_____ Due Date:

Factorise the following trinomials

1. $x^2 + 3x + 2$

=

2. $b^2 + 7b + 6$

=

3. $m^2 + 9m + 20$

=

4. $l^2 + 10l + 25$

=

5. $b^2 + 12b + 36$

=

6. $c^2 - 12c + 36$

=

7. $d^2 - 7d + 12$

=

8. $p^2 - 9p + 20$

=

9. $a^2 + 4a - 12$

=

10. $t^2 + 7t - 30$

=

11. $s^2 + s - 30$

=

12. $b^2 + 2b - 8$

=

13. $y^2 - 7y - 30$

=

14. $p^2 - 26p - 56$

=

15. $m^2 - 14m + 49$

=

2. Factorise by DOPS or common factor

a $4x^2 + 8x$

b $5x^2 + 10xy + 15x^3$

c $d^2 - 9$

d $x^2 - 2$

e $4y^2 - 49x^2$

f $45x^2 - 20$

g $(x + 5)^2 - (x - 4)^2$

3. Factorise by grouping

a) $ab - ac + bd - cd$

b) $3x + ax - 3y - ay$

c) $4ac + 4ad - 6bc - 6bd$

d) $-4ps + 2pr + 6qs - 3qr$