

Factorising

Year Ten Advanced Homework Sheet 8, Term 1

Name: _____ Due Date: _____

Factorise these harder trinomials

1. $2x^2 + 7x + 3$

=

2. $3a^2 + 5a + 2$

=

3. $4a^2 + 13a + 3$

=

4. $3b^2 + 10b + 8$

=

5. $5c^2 - 17c + 6$

=

6. $3a^2 + a - 2$

=

7. $9a^2 - 15a - 6$

=

8. $4x^2 - x - 18$

=

Factorize and simplify:

$$\frac{x^2 - x - 12}{x^2 - 16}$$

Factorize these expressions – mixed up!

1. $5x^2 - 20x$

=

2. $10x^2 - 19x + 6$

=

3. $(x+3)^2 - 25$

=

4. $x^2 - 7$

=

5. $4a^2 - 20a + 24$

=

6. $3x - 12x^3$

=

7. $2x - 15y - 3xy + 10$

=

8. $x^2 - 64$

=

9. $3x^2 + x - 2$

=

10. $5x^3 + 10x^2 + 25x$

=