

# Trinomials

## Year Ten Advanced Homework Sheet # 2, Term 3

Name: \_\_\_\_\_ Due Date: \_\_\_\_\_

<p>Factorise the following trinomials</p> <p>1. <math>x^2 + 3x + 2</math> =</p> <p>2. <math>b^2 + 7b + 6</math> =</p> <p>3. <math>m^2 + 9m + 20</math> =</p> <p>4. <math>l^2 + 10l + 25</math> =</p> <p>5. <math>b^2 + 12b + 36</math> =</p> <p>6. <math>c^2 - 12c + 36</math> =</p> <p>7. <math>d^2 - 7d + 12</math> =</p> <p>8. <math>p^2 - 9p + 20</math> =</p> <p>9. <math>a^2 + 4a - 12</math> =</p> <p>10. <math>t^2 + 7t - 30</math> =</p> <p>11. <math>s^2 + s - 30</math> =</p> <p>12. <math>b^2 + 2b - 8</math> =</p> <p>13. <math>y^2 - 7y - 30</math> =</p> <p>14. <math>p^2 - 26p - 56</math> =</p> <p>15. <math>m^2 - 14m + 49</math> =</p>	<p>2. Factorise by DOPS or common factor</p> <p><b>a</b> <math>4x^2 + 8x</math></p> <p><b>b</b> <math>5x^2 + 10xy + 15x^3</math></p> <p><b>c</b> <math>d^2 - 9</math></p> <p><b>d</b> <math>x^2 - 2</math></p> <p><b>e</b> <math>4y^2 - 49x^2</math></p> <p><b>f</b> <math>45x^2 - 20</math></p> <p><b>g</b> <math>(x + 5)^2 - (x - 4)^2</math></p> <p>3. Factorise by grouping</p> <p><b>a)</b> <math>ab - ac + bd - cd</math></p> <p><b>b)</b> <math>3x + ax - 3y - ay</math></p> <p><b>c)</b> <math>4ac + 4ad - 6bc - 6bd</math></p> <p><b>d)</b> <math>-4ps + 2pr + 6qs - 3qr</math></p>
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