

Chapter 3
OPERATIONS IN ALGEBRA

Factoring - Mixed

<p>1. When the expressions $x^2 - 16$ and $x^2 - 7x + 12$ are factored, a common factor is:</p> <p>(1) x^2 (3) $x - 4$ (2) $x + 4$ (4) $x - 3$</p> <p style="text-align: right;">_____</p>	<p>7. Factor: $2x^2 + 7x + 3$</p> <p style="text-align: right;">_____</p>
<p>2. Factor completely:</p> <p style="text-align: center;">$15x^3 - 10x^2 + 25x$</p> <p style="text-align: right;">_____</p>	<p>8. Factor: $10x^2 - 7x - 12$</p> <p style="text-align: right;">_____</p>
<p>3. Factor: $36a^2 - 1$</p> <p style="text-align: right;">_____</p>	<p>9. Factor: $12x^2y^3 + 18x^3y^4$</p> <p style="text-align: right;">_____</p>
<p>4. Factor: $x^2 - 6x - 27$</p> <p style="text-align: right;">_____</p>	<p>10. Factor: $121 - 64x^2$</p> <p style="text-align: right;">_____</p>
<p>5. If one factor of $x^2 - 13x + 22$ is $(x - 11)$, what is the other factor?</p> <p>(1) $x + 2$ (3) $x - 11$ (2) $x + 11$ (4) $x - 2$</p> <p style="text-align: right;">_____</p>	<p>11. Factor: $16x^2 + 62x + 21$</p> <p style="text-align: right;">_____</p>
<p>6. Factor: $64x^2 + 36y^2$</p> <p style="text-align: right;">_____</p>	<p>12. One of the factors of $8y^3 + 24y^2$ is:</p> <p>(1) $24y^3$ (3) $24y^2$ (2) $8y^3$ (4) $8y^2$</p> <p style="text-align: right;">_____</p>