

**Check Your Understanding**  
**Factoring – Greatest Common Factor**

Answer these problems, then check your answers using the key on the next page.

#1) Factor this expression completely:  $3x^5 + 2x^3 + x^2$

#2) Factor this expression completely:  $2x^3y^4 - 14gx^2y^2$

#3) Factor this expression completely:  $xy + x^2y + x^3y^2$

#4) Factor this expression completely:  $x^2 - 16b^4x^3 + 5b^3x$

**Answers:**

#1)  $x^2(3x^3 + 2x + 1)$

#2)  $2x^2y^2(xy^2 - 7g)$

#3)  $xy(1 + x + x^2y)$

#4)  $x(x - 16b^4x^2 + 5b^3)$