

# Chapter 8 Level 4 Examples

## A.SSE.1a—Interpret parts of expressions

Write a trinomial with  $3a^2b^4$  as the GCF of its terms. EXPLAIN how you found your answer!!

Example:  $6a^3b^4 + 9a^2b^5 + 12a^3b^5$

Don't forget to EXPLAIN how you came up with your answer!!

## A.APR.1—Operations with polynomials

What is the surface area of a cylinder with a radius  $(x + 7)$  and height  $(x + 4)$ ? Write your answer as a simplified polynomial in terms of  $\pi$ .

$$4\pi x^2 + 50\pi x + 154\pi$$

## A.SSE.2—Factoring polynomials

Factor completely:  $12x^4 + 12x^3 - 27x^2 - 27x$

$$3x(x+1)(2x+3)(2x-3)$$