

## Factoring Binomials (Cubes), page 2

Example 2: $27x^3 - 64$	Difference of Cubes problem $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
(            ) (            )	Step 1: Set signs for the factors.
$a = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$	Step 2: Find the cube root of $a^3$ and $b^3$ .
$a^2 = \underline{\hspace{2cm}}$ $b^2 = \underline{\hspace{2cm}}$	Step 3: Square $a$ and $b$ .
$a \cdot b = \underline{\hspace{2cm}}$	Step 4: Multiply $a$ times $b$ .
	Step 5: Fill in the fields for your formula..
	Step 6: Multiply to check.

Example 3: $125x^3 - 27$	Difference of Cubes problem $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
(            ) (            )	Step 1: Set signs for the factors.
$a = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$	Step 2: Find the cube root of $a^3$ and $b^3$ .
$a^2 = \underline{\hspace{2cm}}$ $b^2 = \underline{\hspace{2cm}}$	Step 3: Square $a$ and $b$ .
$a \cdot b = \underline{\hspace{2cm}}$	Step 4: Multiply $a$ times $b$ .
	Step 5: Fill in the fields for your formula..
	Step 6: Multiply to check.