

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**L.C.M of Polynomials**

Problems

Work Space

$x^3 - 8$ and $(x - 2)^2(x + 2)$  L.C.M = _____	
$x^2 - 13x + 36$ and $(x + 6)^2$  L.C.M = _____	
$3xyz(z - 11)^3$ and $7xyz(z^2 - 121)$  L.C.M = _____	
$3x^2 - 27$ and $3x^3 + 81$  L.C.M = _____	
$x^3 - 24x^2 - 51x$ and $x^2 - 22x - 135$  L.C.M = _____	

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### Answers

$x^3 - 8$ and $(x - 2)^2(x + 2)$	
L.C.M = $(x - 2)^2(x + 2)(x^2 + 2x + 4)$	
$x^2 - 13x + 36$ and $(x + 6)^2$	
L.C.M = $(x - 4)(x - 9)(x + 6)^2$	
$3xyz(z - 11)^3$ and $7xyz(z^2 - 121)$	
L.C.M = $21xyz(z + 11)(z - 11)^3$	
$3x^2 - 27$ and $3x^3 + 81$	
L.C.M = $3(x + 3)(x - 3)(x^2 - 3x + 9)$	
$x^3 - 14x^2 - 51x$ and $x^2 - 12x - 85$	
L.C.M = $x(x - 17)(x + 3)(x + 5)$	