

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

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

**Factorize Using Formula**

$$a^2 - b^2 = (a + b)(a - b)$$

Problems

Work Space

$3m^2 - 27$  Answer:	
$a^4 - 256$  Answer:	
$t^2 - 10000v^4$  Answer:	
$2x^5 - 32y^4x$  Answer:	
$125x^3y^5z^4 - 5xy^3z^6$  Answer:	
$72a^3 - 98ab^2$  Answer:	

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

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

### Answers

$3m^2 - 27$	
Answer: $3(m + 3)(m - 3)$	
$a^4 - 256$	
Answer: $(a^2 + 16)(a + 4)(a - 4)$	
$t^2 - 10000v^4$	
Answer: $(t + 100v^2)(\sqrt{t} + 10v)(\sqrt{t} - 10v)$	
$2x^5 - 32y^4x$	
Answer: $2x(x^2 + 4y^2)(x + 2y)(x - 2y)$	
$125x^3y^5z^4 - 5xy^3z^6$	
Answer: $5xy^3z^4(5xy + z)(5xy - z)$	
$72a^3 - 98ab^2$	
Answer: $2a(6a + 7b)(6a - 7b)$	