

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

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

**Factorize Using Formula**

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

Problems

Work Space

$x^2 - 9$  Answer:	
$36m^2 - 25n^2$  Answer:	
$s^2 - 1$  Answer:	
$81 - z^2$  Answer:	
$64a^2b^2 - 49c^2d^2$  Answer:	
$121p^2 - 9q^2$  Answer:	

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### Answers

$x^2 - 9$ Answer: $(x + 3)(x - 3)$	
$36m^2 - 25n^2$ Answer: $(6m + 5n)(6m - 5n)$	
$s^2 - 1$ Answer: $(s + 1)(s - 1)$	
$81 - z^2$ Answer: $(9 + z)(9 - z)$	
$64a^2b^2 - 49c^2d^2$ Answer: $(8ab + 7cd)(8ab - 7cd)$	
$121p^2 - 9q^2$ Answer: $(11p + 3q)(11p - 3q)$	