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Name ID: 1

Factoring the Difference of Squares

Date Period

Factor each completely.

1) 
$$a^{2}-25$$
 $(a+5)(a-5)$ 

(a+5)(a-5)

3)  $n^{2}-49$ 
 $n^{2}-7^{2}$ 

(n+7)(n-7)

5)  $100a^{2}-9$ 
(l(a) - (3)

(l(a+3)(l(a-3))

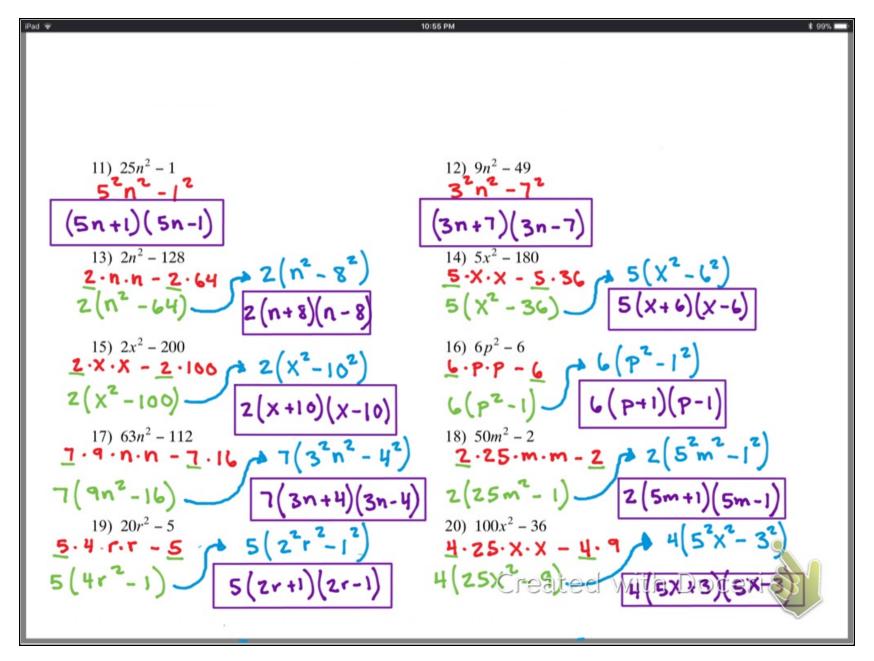
 $a^{2}-25$ 
 $a^{2}-5$ 

((a+5)(6a-5)

 $a^{2}-100$ 
 $a^{2}-100$ 
(9n+10)(9n-10)

11)  $25n^{2}-1$ 

2) 
$$b^{2}-4$$
  
 $b^{2}-2$   
(b+z) (b-z)  
4)  $v^{2}-64$   
 $V-8$   
(V+8) (V-8)  
6)  $81r^{2}-64$   
 $92r^{2}-81$   
 $9m^{2}-81$   
 $9m^{2}-9$   
 $9m^{2}-9$ 



$$100x^{2} - 36$$

$$4 \cdot 25 \cdot x \cdot x - 4 \cdot 9$$

$$4(25x^{2} - 9)$$

$$4(5^{2}x^{2} - 3^{2})$$

$$4(5x - 3)(5x + 3)$$

$$10^{2}x^{2} - 6^{2}$$
 $(10x + 6)(10x - 6)$ 
 $(5x + 3)(10x - 6)$ 
 $(5x + 3)(5x - 3)$ 
 $(5x + 3)(5x - 3)$ 

