

1. 010201a, P.I. A.A.19  
Expressed in factored form, the binomial  $4a^2 - 9b^2$  is equivalent to  
[A]  $(2a - 3b)(2a - 3b)$   
[B]  $(2a - 9b)(2a + b)$   
[C]  $(2a + 3b)(2a - 3b)$   
[D]  $(4a - 3b)(a + 3b)$
2. 010105a, P.I. A.A.19  
One of the factors of  $4x^2 - 9$  is  
[A]  $(x + 3)$  [B]  $(x - 3)$   
[C]  $(2x + 3)$  [D]  $(4x - 3)$
3. 080711a, P.I. A.A.19  
One factor of the expression  $x^2y^2 - 16$  is  
[A]  $x^2 - 4$  [B]  $x^2 + 8$   
[C]  $xy - 8$  [D]  $xy - 4$
4. 010414a, P.I. A.A.19  
What is a common factor of  $x^2 - 9$  and  $x^2 - 5x + 6$ ?  
[A]  $x + 3$  [B]  $x - 3$   
[C]  $x^2$  [D]  $x - 2$
5. 060109a, P.I. A.A.19  
Factor completely:  $3x^2 - 27$   
[A]  $(3x + 3)(x - 9)$  [B]  $3(x - 3)^2$   
[C]  $3(x^2 - 27)$  [D]  $3(x + 3)(x - 3)$
6. 080103a, P.I. A.A.19  
Written in simplest factored form, the binomial  $2x^2 - 50$  can be expressed as  
[A]  $2(x - 5)(x + 5)$  [B]  $(x - 5)(x + 5)$   
[C]  $2(x - 5)(x - 5)$  [D]  $2x(x - 50)$
7. 080533a, P.I. A.A.19  
Factor completely:  $5n^2 - 80$
8. 080434a, P.I. A.A.19  
Factor completely:  $3ax^2 - 27a$

[1] C \_\_\_\_\_

[2] C \_\_\_\_\_

[3] D \_\_\_\_\_

[4] B \_\_\_\_\_

[5] D \_\_\_\_\_

[6] A \_\_\_\_\_

[2]  $5(n + 4)(n - 4)$ , and appropriate work is shown.

[1] Appropriate work is shown, but one factoring error is made or the expression is not simplified completely.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[7] incorrect procedure. \_\_\_\_\_

[2]  $3a(x - 3)(x + 3)$ , and appropriate work is shown.

[1] Appropriate work is shown, but one factoring error is made, or the expression is not factored completely.

or [1]  $3a(x - 3)(x + 3)$ , but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[8] incorrect procedure. \_\_\_\_\_