

## Factoring GCF

- The greatest common factor of  $12x^2y^3$  and  $24xy^2$  is  
1. \_\_\_\_\_  
A.  $6xy$       B.  $24xy^2$       C.  $12xy^2$       D.  $2xy$
- Written in factored form, the binomial  $a^2b - ab^2$  is equivalent to  
2. \_\_\_\_\_  
A.  $ab(a - b)$       B.  $(a - b)(a + b)$       C.  $a^2(b - b^2)$       D.  $a^2b^2(b - a)$
- Expressed in factored form, the binomial  $2x^2y - 4xy^3$  is equivalent to  
3. \_\_\_\_\_  
A.  $2xy(x - 2y)$       B.  $2xy(xy - 4y)$       C.  $2xy(x - 2y^2)$       D.  $2x^2y^3(y - 2)$
- If one factor of  $56x^4y^3 - 42x^2y^6$  is  $14x^2y^3$ , what is the other factor?  
4. \_\_\_\_\_  
A.  $4x^2 - 3y^3$       B.  $4x^2 - 3y^2$       C.  $4x^2y - 3xy^3$       D.  $4x^2y - 3xy^2$
- When factored completely,  $x^3 + 3x^2 - 4x - 12$  equals  
5. \_\_\_\_\_  
A.  $(x + 2)(x - 2)(x - 3)$       B.  $(x + 2)(x - 2)(x + 3)$   
C.  $(x^2 - 4)(x + 3)$       D.  $(x^2 - 4)(x - 3)$
- What is the solution set of the equations  $(x - a)(x + b) = 0$ ?  
6. \_\_\_\_\_  
A.  $\{a, -b\}$       B.  $\{-a, b\}$       C.  $\{-a, -b\}$       D.  $\emptyset$
- The solution set of the equation  $x^2 - 4x = 0$  is  
7. \_\_\_\_\_  
A.  $\{0, 4\}$       B.  $\{4, -4\}$       C.  $\{-4\}$       D.  $\{4\}$

1.  
Answer: C
2.  
Answer: A
3.  
Answer: C
4.  
Answer: A
5.  
Answer: B
6.  
Answer: A
7.  
Answer: A