

Assignment 4.6 Key / REVIEW

- |             |             |
|-------------|-------------|
| 1. <i>A</i> | 4. <i>C</i> |
| 2. <i>B</i> | 5. <i>B</i> |
| 3. <i>C</i> | 6. <i>D</i> |

7.

- a) *between 9:30 – 11:00 AM & between 3:00 – 4:00 PM*  
 b) The attendance dropped to zero and then began picking up again  
 c) -48 people/hr EXPLAIN: The number of people attending decreased by 48 people each hour between 10-12

8.

- a) *Quotient:  $x^2 - 9$  ; zeros:  $-5, -3, 3$*   
 b) *Quotient:  $x^2 + 4x + 4$  ; zeros:  $4, -2$*

9.  $k=5$

10.  $\frac{3}{2}, -4, 4$

11.  $0, 1, 3$

12.  $0, 2\sqrt{2}, -2\sqrt{2}$

13.  $1, 2, 3$

14.  $1, 2, -1, -4$

15.  $a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$

16.  $32x^5 + 80x^4y + 80x^3y^2 + 40x^2y^3 + 10xy^4 + y^5$