

Chapter 13 Assessment • Form B

Circle the letter of the best answer.

- Which expression is a trinomial?
 A. $3x^2y^2z^2$ B. $x^2 + y^2 + z^2$ C. $x^2 + y + \frac{1}{z}$ D. $x + z^2$
- Evaluate $a(2a + b)$ for $a = -5$ and $b = 4$.
 F. 30 G. -30 H. 70 J. -70
- Simplify $(3z^2 + 5z - 3) + (2z + 4)$.
 A. $5z^2 + 5z + 1$ B. $3z^2 + 7z - 7$ C. $3z^2 + 7z + 1$ D. $5z^2 + 7z + 1$
- Simplify $(2n^2 + 3n - 5) - (7n^2 - n + 4)$.
 F. $9n^2 - 1$ G. $-5n^2 + 4n - 9$ H. $9n^2 - 9$ J. $-5n^2 + 2n - 1$
- Simplify $4vw(v^2w - 8v - 5)$.
 A. $4v^3w^2 - 32v^2w - 20vw$ B. $4v^3w^2 - 32v^2w - 20$
 C. $4v^2w^2 - 32v^2w - 20$ D. $4v^2w^2 - 32v^2w - 20vw$

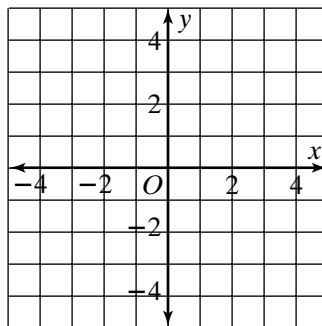
Tell whether each sequence is arithmetic, geometric, or neither. Find the next three terms of each sequence. Write a rule to describe the sequence.

- 8, 8.5, 9, 9.5, _____, _____, _____ type: _____
 rule: _____
- 5, -10, 20, -40, _____, _____, _____ type: _____
 rule: _____

Complete the table and graph each function.

8. $y = -\frac{1}{2}x^2 - 4$

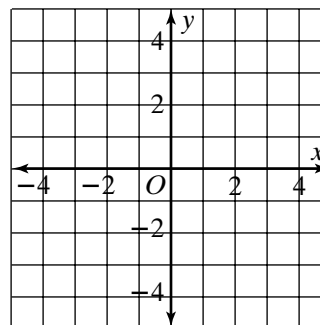
x	$y = -\frac{1}{2}x^2 - 4$	(x, y)
-4		
-2		
0		
2		
4		



Chapter 13 Assessment Form B (continued)

9. $y = -|x| + 3$

x	$y = - x + 3$	(x, y)
-2		
-1		
0		
1		
2		



Simplify.

10. $(p^2 + 3p - 6) - (5p - 1)$ _____

11. $mn^2(m + 4n)$ _____

12. $(x + 7)(x - 10)$ _____

13. $(7a + 2)(3a - 4)$ _____

Write each expression as the product of a monomial and a polynomial.

14. $12x^2 - 16x - 24$ _____

15. $20x^3 + 30x^2 - 50x$ _____

16. The first digit of a 3-digit telephone area code is 6 or 7. The second digit is 9. How many codes are possible?

17. Describe the relationship between a monomial and a trinomial.
