

LESSON
14-3**Practice A**
Adding Polynomials

Add.

1. $(3a + 3) + (5a + 2)$

2. $(4x - x^2 - 9) + (2 - 2x + 6x^2)$

3. $(5y + 2y^2 + 3) + (-5y^2 + 2y)$

4. $(3k^3 + 7k^2 + k) + (k^3 - 2k^2 - 10)$

5. $(2wv - 2w^2v) + (7wv^2 + 6w^2v) + (-3wv + wv^2)$

6. $(b^2c^2 - b^2c + 3bc) + (b^2c^2 - bc + 1) + (2b^2c - bc - 1)$

7. $(e^2 + 3e + 2) + (9 - 6e + e^2) + (9e - 2 - e^2) + (4e^2 - 7e - 8)$

8. $(f^4 - 2f + f^3 - 4) + (3f^3 + 3) + (f^4 - f) + (3 - f^3 + f^4 - f) + (4 - f)$

LESSON **14-3** **Puzzles, Twisters & Teasers**
It's Amazing!

Make your way through the maze by finding the sum of each set of polynomials. You may move up, down, left, right or diagonally, but you may not enter a square more than once.

Sum

1. $(5x^2 - 4x) + (3x^2 + 7x - 2)$ _____

2. $(-6x^2 + x - 8) + (11x^2 - 5x)$ _____

3. $(2x^2 + 12x - 14) + (-8x^2 - 15x) + (7x + 20)$ _____

4. $10x^2 - 4x + 17$
 $+ 3x^2 + 9x - 20$ _____

5. $6x^3 - 3x^2 + 7x + 4$
 $+ 5x^3 + 11x^2 - 10$ _____



| | | | | | | | | | |
|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|
| $8x^2$ | - | $3x$ | $5x^2$ | + | $4x^2$ | + | 9 | - | + |
| + | $2x$ | 2 | $17x^2$ | - | $6x$ | + | $3x^2$ | 5 | + |
| $7x$ | $3x$ | - | + | $12x^2$ | $4x$ | 13 | + | $8x$ | $6x$ |
| + | + | $4x^2$ | 18 | 12 | - | 6 | $11x^3$ | + | $11x^3$ |
| $13x$ | 2 | - | $-6x^2$ | 8 | 9 | 3 | - | 7 | $4x^2$ |
| $-5x^2$ | $4x$ | + | $6x$ | $13x^2$ | - | $5x$ | - | $6x^2$ | $-8x^2$ |
| $8x^2$ | $4x^2$ | + | 6 | + | 13 | $9x$ | $6x^2$ | $8x^2$ | + |
| - | - | 3 | + | $5x$ | $13x$ | $14x$ | + | $7x^2$ | $7x$ |
| $-2x^2$ | $11x^2$ | + | + | - | 37 | $11x^3$ | - | $5x^2$ | - |
| 8 | $5x$ | $8x$ | $8x^2$ | + | 3 | $11x^2$ | $14x^2$ | + | 6 |

