

9TH GRADE MATH WORKSHEET

Name: _____

Date: _____

factor the following quadratic expressions.

SECTION A

- | | | |
|----------------------|----------------------|-----------------------|
| 1) $2x^2 + x - 1$ | 6) $3x^2 - 14x - 5$ | 11) $3x^2 - 2x - 21$ |
| 2) $2x^2 + x - 3$ | 7) $3x^2 - 8x - 11$ | 12) $2x^2 + 2x - 12$ |
| 3) $2x^2 + 9x - 5$ | 8) $2x^2 - 14x + 12$ | 13) $2x^2 - 11x + 15$ |
| 4) $2x^2 - 3x - 2$ | 9) $3x^2 - 21x + 36$ | 14) $3x^2 - 34x - 24$ |
| 5) $2x^2 - 13x - 24$ | 10) $5x^2 - 41x + 8$ | 15) $5x^2 - 27x + 10$ |

SECTION B

- | | | |
|---------------------|---------------------|----------------------|
| 1) $x^2 + 7x - 30$ | 5) $x^2 - 11x + 28$ | 9) $x^2 + 3x - 108$ |
| 2) $x^2 + 9x + 20$ | 6) $x^2 + 6x - 72$ | 10) $x^2 - 17x + 72$ |
| 3) $x^2 + 8x - 9$ | 7) $x^2 - 9x - 22$ | 11) $x^2 - x - 42$ |
| 4) $x^2 - 18x + 80$ | 8) $x^2 - x - 12$ | 12) $x^2 - 15x + 56$ |

SECTION C

- | | | |
|--------------------|-----------------------|-----------------------|
| 1) $2x^2 + 3x + 1$ | 6) $2x^2 + 5x + 3$ | 11) $2x^2 + 12x + 18$ |
| 2) $2x^2 + 5x + 2$ | 7) $2x^2 + 8x + 6$ | 12) $2x^2 + 14x + 20$ |
| 3) $2x^2 + 7x + 3$ | 8) $2x^2 + 9x + 10$ | 13) $2x^2 + 22x + 36$ |
| 4) $2x^2 + 7x + 5$ | 9) $2x^2 + 16x + 14$ | 14) $2x^2 + 28x + 48$ |
| 5) $2x^2 + 9x + 7$ | 10) $2x^2 + 16x + 24$ | 15) $2x^2 + 26x + 72$ |