

Factoring Quadratic Expressions (A)

Name: _____

Date: _____

Factor each expression.

1. $45x^2 - 94x + 48$

11. $36x^2 - 41x + 8$

2. $7x^2 + 67x + 36$

12. $36x^2 + 11x - 5$

3. $48x^2 + 10x - 3$

13. $27x^2 - 3x - 14$

4. $8x^2 + 46x + 63$

14. $7x^2 + 19x - 36$

5. $18x^2 - 23x - 6$

15. $42x^2 - 17x - 15$

6. $56x^2 - 31x + 3$

16. $9x^2 - 6x - 8$

7. $14x^2 + 25x + 9$

17. $5x^2 - 8x - 4$

8. $30x^2 - 71x + 42$

18. $12x^2 + 17x - 7$

9. $30x^2 - 29x - 7$

19. $48x^2 + 2x - 35$

10. $63x^2 + 37x + 4$

20. $20x^2 - 13x + 2$

Factoring Quadratic Expressions (A) Answers

Name: _____

Date: _____

Factor each expression.

1. $45x^2 - 94x + 48$

$(9x - 8)(5x - 6)$

2. $7x^2 + 67x + 36$

$(x + 9)(7x + 4)$

3. $48x^2 + 10x - 3$

$(6x - 1)(8x + 3)$

4. $8x^2 + 46x + 63$

$(4x + 9)(2x + 7)$

5. $18x^2 - 23x - 6$

$(9x + 2)(2x - 3)$

6. $56x^2 - 31x + 3$

$(8x - 1)(7x - 3)$

7. $14x^2 + 25x + 9$

$(2x + 1)(7x + 9)$

8. $30x^2 - 71x + 42$

$(5x - 6)(6x - 7)$

9. $30x^2 - 29x - 7$

$(5x + 1)(6x - 7)$

10. $63x^2 + 37x + 4$

$(7x + 1)(9x + 4)$

11. $36x^2 - 41x + 8$

$(4x - 1)(9x - 8)$

12. $36x^2 + 11x - 5$

$(9x + 5)(4x - 1)$

13. $27x^2 - 3x - 14$

$(9x - 7)(3x + 2)$

14. $7x^2 + 19x - 36$

$(7x - 9)(x + 4)$

15. $42x^2 - 17x - 15$

$(6x - 5)(7x + 3)$

16. $9x^2 - 6x - 8$

$(3x + 2)(3x - 4)$

17. $5x^2 - 8x - 4$

$(5x + 2)(x - 2)$

18. $12x^2 + 17x - 7$

$(3x - 1)(4x + 7)$

19. $48x^2 + 2x - 35$

$(6x - 5)(8x + 7)$

20. $20x^2 - 13x + 2$

$(4x - 1)(5x - 2)$

Factoring Quadratic Expressions (B)

Name: _____

Date: _____

Factor each expression.

1. $24x^2 - 23x + 5$

11. $10x^2 + 41x - 18$

2. $7x^2 + 23x + 18$

12. $27x^2 - 48x - 35$

3. $16x^2 - 24x - 7$

13. $35x^2 + 24x - 27$

4. $5x^2 - 46x + 9$

14. $12x^2 - 28x - 5$

5. $4x^2 - 8x - 45$

15. $2x^2 + 3x - 54$

6. $6x^2 + 29x - 42$

16. $2x^2 + 21x + 54$

7. $30x^2 + 89x + 63$

17. $12x^2 - 28x - 49$

8. $45x^2 - 13x - 24$

18. $7x^2 + 44x + 45$

9. $45x^2 - 98x + 49$

19. $20x^2 + x - 30$

10. $9x^2 + 45x + 56$

20. $12x^2 + 17x - 5$

Factoring Quadratic Expressions (B) Answers

Name: _____

Date: _____

Factor each expression.

1. $24x^2 - 23x + 5$

$(3x - 1)(8x - 5)$

2. $7x^2 + 23x + 18$

$(7x + 9)(x + 2)$

3. $16x^2 - 24x - 7$

$(4x - 7)(4x + 1)$

4. $5x^2 - 46x + 9$

$(x - 9)(5x - 1)$

5. $4x^2 - 8x - 45$

$(2x - 9)(2x + 5)$

6. $6x^2 + 29x - 42$

$(6x - 7)(x + 6)$

7. $30x^2 + 89x + 63$

$(5x + 9)(6x + 7)$

8. $45x^2 - 13x - 24$

$(9x - 8)(5x + 3)$

9. $45x^2 - 98x + 49$

$(9x - 7)(5x - 7)$

10. $9x^2 + 45x + 56$

$(3x + 8)(3x + 7)$

11. $10x^2 + 41x - 18$

$(5x - 2)(2x + 9)$

12. $27x^2 - 48x - 35$

$(9x + 5)(3x - 7)$

13. $35x^2 + 24x - 27$

$(5x - 3)(7x + 9)$

14. $12x^2 - 28x - 5$

$(2x - 5)(6x + 1)$

15. $2x^2 + 3x - 54$

$(2x - 9)(x + 6)$

16. $2x^2 + 21x + 54$

$(2x + 9)(x + 6)$

17. $12x^2 - 28x - 49$

$(6x + 7)(2x - 7)$

18. $7x^2 + 44x + 45$

$(x + 5)(7x + 9)$

19. $20x^2 + x - 30$

$(4x + 5)(5x - 6)$

20. $12x^2 + 17x - 5$

$(4x - 1)(3x + 5)$

Factoring Quadratic Expressions (C)

Name: _____

Date: _____

Factor each expression.

1. $32x^2 + 68x + 35$

11. $28x^2 + 31x - 72$

2. $8x^2 + 49x + 6$

12. $6x^2 + 13x - 5$

3. $49x^2 + 7x - 6$

13. $10x^2 + 63x + 81$

4. $6x^2 + 35x - 49$

14. $14x^2 + 37x + 5$

5. $35x^2 + 39x + 10$

15. $7x^2 - 53x - 24$

6. $21x^2 + 22x + 5$

16. $18x^2 + 61x - 7$

7. $54x^2 + 39x - 8$

17. $20x^2 + 41x + 9$

8. $4x^2 + 41x + 45$

18. $14x^2 - 25x - 25$

9. $3x^2 - 35x + 72$

19. $36x^2 + 25x - 25$

10. $30x^2 - 79x + 45$

20. $5x^2 - 18x + 9$

Factoring Quadratic Expressions (C) Answers

Name: _____

Date: _____

Factor each expression.

1. $32x^2 + 68x + 35$

$(8x + 7)(4x + 5)$

2. $8x^2 + 49x + 6$

$(x + 6)(8x + 1)$

3. $49x^2 + 7x - 6$

$(7x - 2)(7x + 3)$

4. $6x^2 + 35x - 49$

$(6x - 7)(x + 7)$

5. $35x^2 + 39x + 10$

$(5x + 2)(7x + 5)$

6. $21x^2 + 22x + 5$

$(3x + 1)(7x + 5)$

7. $54x^2 + 39x - 8$

$(9x + 8)(6x - 1)$

8. $4x^2 + 41x + 45$

$(4x + 5)(x + 9)$

9. $3x^2 - 35x + 72$

$(3x - 8)(x - 9)$

10. $30x^2 - 79x + 45$

$(5x - 9)(6x - 5)$

11. $28x^2 + 31x - 72$

$(4x + 9)(7x - 8)$

12. $6x^2 + 13x - 5$

$(2x + 5)(3x - 1)$

13. $10x^2 + 63x + 81$

$(5x + 9)(2x + 9)$

14. $14x^2 + 37x + 5$

$(7x + 1)(2x + 5)$

15. $7x^2 - 53x - 24$

$(7x + 3)(x - 8)$

16. $18x^2 + 61x - 7$

$(2x + 7)(9x - 1)$

17. $20x^2 + 41x + 9$

$(4x + 1)(5x + 9)$

18. $14x^2 - 25x - 25$

$(2x - 5)(7x + 5)$

19. $36x^2 + 25x - 25$

$(4x + 5)(9x - 5)$

20. $5x^2 - 18x + 9$

$(x - 3)(5x - 3)$

Factoring Quadratic Expressions (D)

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 9x - 2$

11. $8x^2 - 17x + 9$

2. $14x^2 - x - 4$

12. $10x^2 - 39x + 35$

3. $9x^2 - 42x + 49$

13. $45x^2 - 71x + 28$

4. $24x^2 - 46x + 7$

14. $24x^2 + 35x - 49$

5. $15x^2 + 38x + 24$

15. $12x^2 - 20x + 3$

6. $18x^2 - 3x - 10$

16. $24x^2 + 10x - 21$

7. $9x^2 - 18x - 7$

17. $14x^2 - x - 3$

8. $56x^2 - 29x + 3$

18. $21x^2 - 17x + 2$

9. $6x^2 - 55x + 9$

19. $42x^2 + x - 56$

10. $18x^2 + 53x - 35$

20. $4x^2 + 20x + 21$

Factoring Quadratic Expressions (D) Answers

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 9x - 2$

$(3x + 2)(6x - 1)$

2. $14x^2 - x - 4$

$(2x + 1)(7x - 4)$

3. $9x^2 - 42x + 49$

$(3x - 7)(3x - 7) = (3x - 7)^2$

4. $24x^2 - 46x + 7$

$(4x - 7)(6x - 1)$

5. $15x^2 + 38x + 24$

$(5x + 6)(3x + 4)$

6. $18x^2 - 3x - 10$

$(3x + 2)(6x - 5)$

7. $9x^2 - 18x - 7$

$(3x - 7)(3x + 1)$

8. $56x^2 - 29x + 3$

$(8x - 3)(7x - 1)$

9. $6x^2 - 55x + 9$

$(x - 9)(6x - 1)$

10. $18x^2 + 53x - 35$

$(2x + 7)(9x - 5)$

11. $8x^2 - 17x + 9$

$(x - 1)(8x - 9)$

12. $10x^2 - 39x + 35$

$(5x - 7)(2x - 5)$

13. $45x^2 - 71x + 28$

$(5x - 4)(9x - 7)$

14. $24x^2 + 35x - 49$

$(3x + 7)(8x - 7)$

15. $12x^2 - 20x + 3$

$(2x - 3)(6x - 1)$

16. $24x^2 + 10x - 21$

$(6x + 7)(4x - 3)$

17. $14x^2 - x - 3$

$(7x + 3)(2x - 1)$

18. $21x^2 - 17x + 2$

$(7x - 1)(3x - 2)$

19. $42x^2 + x - 56$

$(6x + 7)(7x - 8)$

20. $4x^2 + 20x + 21$

$(2x + 7)(2x + 3)$

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $56x^2 - 113x + 56$

11. $9x^2 - 50x + 25$

2. $2x^2 + 13x + 6$

12. $9x^2 + 33x + 28$

3. $2x^2 - 11x - 21$

13. $x^2 - 2x - 8$

4. $35x^2 + 68x + 9$

14. $x^2 - 12x + 35$

5. $36x^2 - 85x + 9$

15. $4x^2 + 15x - 54$

6. $25x^2 + 65x + 36$

16. $10x^2 + 27x + 18$

7. $40x^2 - 9x - 9$

17. $3x^2 - 23x + 40$

8. $72x^2 - 73x - 9$

18. $6x^2 - 19x + 10$

9. $32x^2 + 4x - 15$

19. $9x^2 - 59x - 28$

10. $18x^2 - 79x - 9$

20. $15x^2 + 14x - 8$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $56x^2 - 113x + 56$

$(7x - 8)(8x - 7)$

2. $2x^2 + 13x + 6$

$(2x + 1)(x + 6)$

3. $2x^2 - 11x - 21$

$(x - 7)(2x + 3)$

4. $35x^2 + 68x + 9$

$(5x + 9)(7x + 1)$

5. $36x^2 - 85x + 9$

$(9x - 1)(4x - 9)$

6. $25x^2 + 65x + 36$

$(5x + 4)(5x + 9)$

7. $40x^2 - 9x - 9$

$(5x - 3)(8x + 3)$

8. $72x^2 - 73x - 9$

$(9x + 1)(8x - 9)$

9. $32x^2 + 4x - 15$

$(4x + 3)(8x - 5)$

10. $18x^2 - 79x - 9$

$(2x - 9)(9x + 1)$

11. $9x^2 - 50x + 25$

$(x - 5)(9x - 5)$

12. $9x^2 + 33x + 28$

$(3x + 7)(3x + 4)$

13. $x^2 - 2x - 8$

$(x + 2)(x - 4)$

14. $x^2 - 12x + 35$

$(x - 5)(x - 7)$

15. $4x^2 + 15x - 54$

$(4x - 9)(x + 6)$

16. $10x^2 + 27x + 18$

$(2x + 3)(5x + 6)$

17. $3x^2 - 23x + 40$

$(x - 5)(3x - 8)$

18. $6x^2 - 19x + 10$

$(3x - 2)(2x - 5)$

19. $9x^2 - 59x - 28$

$(x - 7)(9x + 4)$

20. $15x^2 + 14x - 8$

$(3x + 4)(5x - 2)$

Factoring Quadratic Expressions (F)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 23x - 6$

11. $45x^2 + 2x - 8$

2. $9x^2 + 67x + 28$

12. $40x^2 - 27x - 4$

3. $56x^2 + 31x + 3$

13. $2x^2 + 3x - 27$

4. $7x^2 + 16x - 15$

14. $63x^2 - 17x - 20$

5. $72x^2 - 5x - 25$

15. $40x^2 + 23x - 30$

6. $64x^2 - 32x - 45$

16. $28x^2 - 13x - 63$

7. $16x^2 - 32x - 9$

17. $56x^2 + 15x + 1$

8. $6x^2 + 19x + 14$

18. $48x^2 - 34x - 5$

9. $72x^2 + 19x - 3$

19. $21x^2 + 53x - 8$

10. $8x^2 + 6x - 5$

20. $49x^2 + 105x + 54$

Factoring Quadratic Expressions (F) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 23x - 6$

$(4x + 1)(x - 6)$

2. $9x^2 + 67x + 28$

$(9x + 4)(x + 7)$

3. $56x^2 + 31x + 3$

$(7x + 3)(8x + 1)$

4. $7x^2 + 16x - 15$

$(7x - 5)(x + 3)$

5. $72x^2 - 5x - 25$

$(9x + 5)(8x - 5)$

6. $64x^2 - 32x - 45$

$(8x - 9)(8x + 5)$

7. $16x^2 - 32x - 9$

$(4x + 1)(4x - 9)$

8. $6x^2 + 19x + 14$

$(x + 2)(6x + 7)$

9. $72x^2 + 19x - 3$

$(9x - 1)(8x + 3)$

10. $8x^2 + 6x - 5$

$(4x + 5)(2x - 1)$

11. $45x^2 + 2x - 8$

$(9x + 4)(5x - 2)$

12. $40x^2 - 27x - 4$

$(8x + 1)(5x - 4)$

13. $2x^2 + 3x - 27$

$(2x + 9)(x - 3)$

14. $63x^2 - 17x - 20$

$(9x + 4)(7x - 5)$

15. $40x^2 + 23x - 30$

$(8x - 5)(5x + 6)$

16. $28x^2 - 13x - 63$

$(7x + 9)(4x - 7)$

17. $56x^2 + 15x + 1$

$(7x + 1)(8x + 1)$

18. $48x^2 - 34x - 5$

$(6x - 5)(8x + 1)$

19. $21x^2 + 53x - 8$

$(3x + 8)(7x - 1)$

20. $49x^2 + 105x + 54$

$(7x + 6)(7x + 9)$

Factoring Quadratic Expressions (G)

Name: _____

Date: _____

Factor each expression.

1. $30x^2 - 19x - 63$

11. $8x^2 + 2x - 1$

2. $72x^2 - 13x - 20$

12. $72x^2 - 103x + 35$

3. $20x^2 - 9x + 1$

13. $64x^2 - 32x + 3$

4. $5x^2 + 37x + 14$

14. $36x^2 - 55x - 14$

5. $7x^2 + 50x + 48$

15. $25x^2 + 60x + 27$

6. $6x^2 - 7x + 2$

16. $35x^2 + 54x + 16$

7. $56x^2 + 29x - 40$

17. $36x^2 - 36x - 7$

8. $24x^2 + 67x + 45$

18. $56x^2 - 51x + 10$

9. $18x^2 + 35x + 12$

19. $36x^2 + 36x - 7$

10. $8x^2 - 3x - 5$

20. $18x^2 - 5x - 2$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $30x^2 - 19x - 63$

$(6x + 7)(5x - 9)$

2. $72x^2 - 13x - 20$

$(9x + 4)(8x - 5)$

3. $20x^2 - 9x + 1$

$(5x - 1)(4x - 1)$

4. $5x^2 + 37x + 14$

$(x + 7)(5x + 2)$

5. $7x^2 + 50x + 48$

$(x + 6)(7x + 8)$

6. $6x^2 - 7x + 2$

$(2x - 1)(3x - 2)$

7. $56x^2 + 29x - 40$

$(8x - 5)(7x + 8)$

8. $24x^2 + 67x + 45$

$(3x + 5)(8x + 9)$

9. $18x^2 + 35x + 12$

$(9x + 4)(2x + 3)$

10. $8x^2 - 3x - 5$

$(8x + 5)(x - 1)$

11. $8x^2 + 2x - 1$

$(2x + 1)(4x - 1)$

12. $72x^2 - 103x + 35$

$(8x - 7)(9x - 5)$

13. $64x^2 - 32x + 3$

$(8x - 3)(8x - 1)$

14. $36x^2 - 55x - 14$

$(9x + 2)(4x - 7)$

15. $25x^2 + 60x + 27$

$(5x + 9)(5x + 3)$

16. $35x^2 + 54x + 16$

$(7x + 8)(5x + 2)$

17. $36x^2 - 36x - 7$

$(6x + 1)(6x - 7)$

18. $56x^2 - 51x + 10$

$(8x - 5)(7x - 2)$

19. $36x^2 + 36x - 7$

$(6x - 1)(6x + 7)$

20. $18x^2 - 5x - 2$

$(9x + 2)(2x - 1)$

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $72x^2 + 71x + 7$

11. $9x^2 - 64x + 7$

2. $63x^2 - 4x - 4$

12. $18x^2 - 19x + 5$

3. $36x^2 - 71x + 14$

13. $18x^2 + 79x + 56$

4. $64x^2 - 64x - 9$

14. $2x^2 - 21x + 40$

5. $28x^2 - 81x + 56$

15. $56x^2 - 25x - 4$

6. $5x^2 - 11x + 2$

16. $6x^2 - x - 35$

7. $12x^2 - 35x + 25$

17. $2x^2 + 7x + 6$

8. $36x^2 - 12x - 35$

18. $8x^2 + 25x + 3$

9. $30x^2 + 19x - 5$

19. $72x^2 - 35x + 3$

10. $20x^2 - 19x - 28$

20. $42x^2 + 55x + 7$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $72x^2 + 71x + 7$

$(9x + 1)(8x + 7)$

2. $63x^2 - 4x - 4$

$(7x - 2)(9x + 2)$

3. $36x^2 - 71x + 14$

$(9x - 2)(4x - 7)$

4. $64x^2 - 64x - 9$

$(8x - 9)(8x + 1)$

5. $28x^2 - 81x + 56$

$(7x - 8)(4x - 7)$

6. $5x^2 - 11x + 2$

$(x - 2)(5x - 1)$

7. $12x^2 - 35x + 25$

$(3x - 5)(4x - 5)$

8. $36x^2 - 12x - 35$

$(6x + 5)(6x - 7)$

9. $30x^2 + 19x - 5$

$(6x + 5)(5x - 1)$

10. $20x^2 - 19x - 28$

$(5x + 4)(4x - 7)$

11. $9x^2 - 64x + 7$

$(9x - 1)(x - 7)$

12. $18x^2 - 19x + 5$

$(9x - 5)(2x - 1)$

13. $18x^2 + 79x + 56$

$(9x + 8)(2x + 7)$

14. $2x^2 - 21x + 40$

$(2x - 5)(x - 8)$

15. $56x^2 - 25x - 4$

$(7x - 4)(8x + 1)$

16. $6x^2 - x - 35$

$(2x - 5)(3x + 7)$

17. $2x^2 + 7x + 6$

$(2x + 3)(x + 2)$

18. $8x^2 + 25x + 3$

$(x + 3)(8x + 1)$

19. $72x^2 - 35x + 3$

$(9x - 1)(8x - 3)$

20. $42x^2 + 55x + 7$

$(6x + 7)(7x + 1)$

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $24x^2 + 46x + 21$

11. $36x^2 + 7x - 15$

2. $20x^2 + 57x + 27$

12. $63x^2 - 68x + 12$

3. $14x^2 + 53x + 45$

13. $72x^2 + 127x + 56$

4. $42x^2 - 23x - 10$

14. $24x^2 + 38x - 7$

5. $35x^2 + 48x + 16$

15. $56x^2 + 127x + 72$

6. $48x^2 + 2x - 1$

16. $4x^2 - 9$

7. $7x^2 + 34x - 48$

17. $35x^2 + 17x - 30$

8. $12x^2 - 44x + 7$

18. $36x^2 + 48x + 7$

9. $40x^2 - 41x - 21$

19. $36x^2 + 36x + 5$

10. $14x^2 + 3x - 27$

20. $28x^2 + 79x + 36$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $24x^2 + 46x + 21$

$(6x + 7)(4x + 3)$

2. $20x^2 + 57x + 27$

$(5x + 3)(4x + 9)$

3. $14x^2 + 53x + 45$

$(7x + 9)(2x + 5)$

4. $42x^2 - 23x - 10$

$(6x - 5)(7x + 2)$

5. $35x^2 + 48x + 16$

$(5x + 4)(7x + 4)$

6. $48x^2 + 2x - 1$

$(6x + 1)(8x - 1)$

7. $7x^2 + 34x - 48$

$(x + 6)(7x - 8)$

8. $12x^2 - 44x + 7$

$(2x - 7)(6x - 1)$

9. $40x^2 - 41x - 21$

$(8x + 3)(5x - 7)$

10. $14x^2 + 3x - 27$

$(2x + 3)(7x - 9)$

11. $36x^2 + 7x - 15$

$(9x - 5)(4x + 3)$

12. $63x^2 - 68x + 12$

$(9x - 2)(7x - 6)$

13. $72x^2 + 127x + 56$

$(8x + 7)(9x + 8)$

14. $24x^2 + 38x - 7$

$(6x - 1)(4x + 7)$

15. $56x^2 + 127x + 72$

$(8x + 9)(7x + 8)$

16. $4x^2 - 9$

$(2x + 3)(2x - 3)$

17. $35x^2 + 17x - 30$

$(7x - 5)(5x + 6)$

18. $36x^2 + 48x + 7$

$(6x + 1)(6x + 7)$

19. $36x^2 + 36x + 5$

$(6x + 5)(6x + 1)$

20. $28x^2 + 79x + 36$

$(7x + 4)(4x + 9)$

Factoring Quadratic Expressions (J)

Name: _____

Date: _____

Factor each expression.

1. $28x^2 + 67x + 9$

11. $56x^2 + 15x - 54$

2. $35x^2 - 39x + 10$

12. $27x^2 + 21x - 20$

3. $20x^2 + 13x + 2$

13. $21x^2 + 22x + 5$

4. $4x^2 - 28x + 49$

14. $12x^2 + 28x + 15$

5. $35x^2 - 62x + 24$

15. $14x^2 + 55x + 21$

6. $63x^2 + 29x - 4$

16. $6x^2 - 5x - 25$

7. $28x^2 - 27x + 5$

17. $12x^2 + 40x + 25$

8. $56x^2 + 37x - 45$

18. $72x^2 + 59x + 12$

9. $36x^2 - x - 21$

19. $56x^2 + 25x - 4$

10. $32x^2 + 52x - 7$

20. $21x^2 - 29x + 10$

Factoring Quadratic Expressions (J) Answers

Name: _____

Date: _____

Factor each expression.

1. $28x^2 + 67x + 9$

$(4x + 9)(7x + 1)$

2. $35x^2 - 39x + 10$

$(7x - 5)(5x - 2)$

3. $20x^2 + 13x + 2$

$(4x + 1)(5x + 2)$

4. $4x^2 - 28x + 49$

$(2x - 7)(2x - 7) = (2x - 7)^2$

5. $35x^2 - 62x + 24$

$(7x - 4)(5x - 6)$

6. $63x^2 + 29x - 4$

$(7x + 4)(9x - 1)$

7. $28x^2 - 27x + 5$

$(7x - 5)(4x - 1)$

8. $56x^2 + 37x - 45$

$(8x - 5)(7x + 9)$

9. $36x^2 - x - 21$

$(9x - 7)(4x + 3)$

10. $32x^2 + 52x - 7$

$(8x - 1)(4x + 7)$

11. $56x^2 + 15x - 54$

$(8x + 9)(7x - 6)$

12. $27x^2 + 21x - 20$

$(3x + 4)(9x - 5)$

13. $21x^2 + 22x + 5$

$(3x + 1)(7x + 5)$

14. $12x^2 + 28x + 15$

$(2x + 3)(6x + 5)$

15. $14x^2 + 55x + 21$

$(7x + 3)(2x + 7)$

16. $6x^2 - 5x - 25$

$(3x + 5)(2x - 5)$

17. $12x^2 + 40x + 25$

$(6x + 5)(2x + 5)$

18. $72x^2 + 59x + 12$

$(8x + 3)(9x + 4)$

19. $56x^2 + 25x - 4$

$(8x - 1)(7x + 4)$

20. $21x^2 - 29x + 10$

$(7x - 5)(3x - 2)$