

Multiplying Factors (H)

Find the product of each pair of factors.

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

11. $(4x + 4)(-4x + 8)$

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

12. $(8x - 9)(5x + 1)$

3. $(9x + 8)(-6x + 4)$

13. $(-2x + 3)(9x + 7)$

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

14. $(7x - 7)(-5x - 9)$

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

15. $(-3x + 7)(3x + 9)$

6. $(-9x - 5)(4x - 3)$

16. $(-3x + 1)(2x + 9)$

7. $(7x + 4)(-9x - 6)$

17. $(-2x + 6)(-3x - 4)$

8. $(-2x + 2)(-9x - 4)$

18. $(4x - 9)(-4x + 9)$

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

19. $(-5x + 5)(-8x - 1)$

10. $(-2x + 8)(-9x + 9)$

20. $(x - 8)(7x - 8)$

Multiplying Factors (H) Answers

Find the product of each pair of factors.

1. $(-x + 8)(x + 3)$
 $-x^2 + 5x + 24$

2. $(-4x + 9)(7x + 9)$
 $-28x^2 + 27x + 81$

3. $(9x + 8)(-6x + 4)$
 $-54x^2 - 12x + 32$

4. $(-3x + 4)(-4x - 4)$
 $12x^2 - 4x - 16$

5. $(8x - 6)(-x - 6)$
 $-8x^2 - 42x + 36$

6. $(-9x - 5)(4x - 3)$
 $-36x^2 + 7x + 15$

7. $(7x + 4)(-9x - 6)$
 $-63x^2 - 78x - 24$

8. $(-2x + 2)(-9x - 4)$
 $18x^2 - 10x - 8$

9. $(-x + 9)(-x - 1)$
 $x^2 - 8x - 9$

10. $(-2x + 8)(-9x + 9)$
 $18x^2 - 90x + 72$

11. $(4x + 4)(-4x + 8)$
 $-16x^2 + 16x + 32$

12. $(8x - 9)(5x + 1)$
 $40x^2 - 37x - 9$

13. $(-2x + 3)(9x + 7)$
 $-18x^2 + 13x + 21$

14. $(7x - 7)(-5x - 9)$
 $-35x^2 - 28x + 63$

15. $(-3x + 7)(3x + 9)$
 $-9x^2 - 6x + 63$

16. $(-3x + 1)(2x + 9)$
 $-6x^2 - 25x + 9$

17. $(-2x + 6)(-3x - 4)$
 $6x^2 - 10x - 24$

18. $(4x - 9)(-4x + 9)$
 $-16x^2 + 72x - 81$

19. $(-5x + 5)(-8x - 1)$
 $40x^2 - 35x - 5$

20. $(x - 8)(7x - 8)$
 $7x^2 - 64x + 64$