

Simplifying Linear Expressions (A) Answers

Simplify each expression by combining like terms.

1. $-7d - 3 + 3d - 4d - 4d$
 $= -12d - 3$

2. $-3 + 2r + 7r + 4 + 8r$
 $= 17r + 1$

3. $-4 - 8 + 3h - 8h - 5h$
 $= -10h - 12$

4. $8r + 9 - 4r - 3r - 8r$
 $= -7r + 9$

5. $-3m - 1 + m - 5m - 2m$
 $= -9m - 1$

6. $2z - 7 - 8z + 9z + 9$
 $= 3z + 2$

7. $-1 - 9n + 8n + 7 - 7$
 $= -n - 1$

8. $-8r - 2r + 3r - r + 3$
 $= -8r + 3$

9. $8w - 6w + 5 + 5 - 1$
 $= 2w + 9$

10. $3h - 3h + 7h + 8h + 3$
 $= 15h + 3$

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Simplify each expression by combining like terms.

1. $5r - 7 - 1 - 3r + r + 4r + 9 + 6 - 2r$
 $= 5r + 7$

2. $-9p + 3 + 4p + 7p - 4p - 4p$
 $= -6p + 3$

3. $8p - 3 + 9p + 6p + 2p - 6p - 3p - 9p$
 $= 7p - 3$

4. $-6c + 2c - 4c + 2 - 4c + 6c - 1 - 3 + 5c$
 $= -c - 2$

5. $-9v - 9 - 5v - 5 - v + 2 - 8 - 9 + 7v + 5v$
 $= -3v - 29$

6. $-g - 4 - 5 - 9 + 5g + 7 - 9 + g - 9g$
 $= -4g - 20$

7. $3 + 8 - 3z - 5 - 9z - 1 - 6 - 4$
 $= -12z - 5$

8. $-9m - 8 - 3m + 8m - 7m + 4 + 3 + 4 - m$
 $= -12m + 3$

9. $3p - 3p + 3p + p + 7p + 7 - 4 - 3 - 3p - 7p$
 $= p$

10. $9c + 9 + 2 - 8c + 6c - 5c - 9$
 $= 2c + 2$

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Simplifying Quadratic Expressions (A) Answers

Simplify each expression by combining like terms.

1. $-5 - 5d^2 + 4d^2 + 9d^2 + 7$
 $= 8d^2 + 2$
2. $-8b - 9 - 8b + 5b^2 - 8b^2 + 2b^2 + 6 + 5b$
 $= -b^2 - 11b - 3$
3. $-4 - 5b^2 - 1 - 2b - 6b^2$
 $= -11b^2 - 2b - 5$
4. $-2c^2 - 4 - 2 - 4c^2 + 5c - 1$
 $= -6c^2 + 5c - 7$
5. $8 - 7r + r^2 + 1 - 3r^2 - 8r$
 $= -2r^2 - 15r + 9$
6. $8 - 5x^2 + 9x - 1 - 4 - 2x^2 - 7x + x - 8x + 7x^2$
 $= -5x + 3$
7. $4g - 4 - 3g^2 + 4g - 2 - g^2$
 $= -4g^2 + 8g - 6$
8. $-3f - 2f^2 - 9f^2 + 3f + 9f - 5f$
 $= -11f^2 + 4f$
9. $-3 - 5p - 6p^2 - 8p^2 + 8p - 1 + 2 - 3$
 $= -14p^2 + 3p - 5$
10. $6s^2 - 2s^2 - 8s + 7 + 3 - 4 - 5 - 5 + 8s$
 $= 4s^2 - 4$

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Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

1. $7(-6x^2 - 9x - 5) - 4(-7x^2 - 7x + 7)$
 $= -14x^2 - 35x - 63$
2. $6(m^2 - m + 9) - 8(m^2 + 2m - 3)$
 $= -2m^2 - 22m + 78$
3. $-9(7k^2 - 4k + 6) - 2(2k^2 - 7k - 1)$
 $= -67k^2 + 50k - 52$
4. $7(-5m^2 + 8m + 8) - 3(5m^2 + 8m - 3)$
 $= -50m^2 + 32m + 65$
5. $-2(6x^2 - 8x + 1) - 6(3x^2 + 8x - 3)$
 $= -30x^2 - 32x + 16$
6. $-(q^2 - 9q + 3) - 2(-9q^2 - 2q - 1)$
 $= 17q^2 + 13q - 1$
7. $-4(-6d^2 + 8d - 1) - 8(5d^2 - 5d - 2)$
 $= -16d^2 + 8d + 20$
8. $5(-9b^2 - 8b + 8) - 4(-5b^2 + 2b - 1)$
 $= -25b^2 - 48b + 44$
9. $-9(2v^2 - v - 8) - 6(-5v^2 - 3v - 9)$
 $= 12v^2 + 27v + 126$
10. $6(2f^2 + 9f - 4) - 7(3f^2 - 7f - 7)$
 $= -9f^2 + 103f + 25$

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