

Equivalent Expressions and Combining Like Terms - Answer Key

1. $11x$

2. $12a$

3. $3y+12$

4. $17m-16$

5. $6p+12q$

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

7. $3n+9$

8. $14r+3s$

9. $-3ab+13a$

10. $23-9t$

11. $9x+3y$

12. $5k-4$

13. $8x^2-3x$

14. $11c+3d$

15. $-3v-7$

16. Equivalent.

17. Not equivalent. For example, when $x=0$, the values are 4 and 0.

18. Equivalent.

19. Not equivalent. For example, when $x=0$, the values are 6 and -6 .

20. Equivalent.

21. Not equivalent. For example, when $x=2$, the values are 14 and 20.

22. Equivalent.

23. One possible answer: $2x+3x+10-2$.

24. One possible answer: $2(x+3)$ and $2x+6$.

25. One possible answer: $4x+4$.

26. One possible answer: $2x+5y+3+4x-7x+z$, which simplifies to $-x+5y+3+z$.

27. One possible answer: $2x+3$ and $x+4$.