

Chapter 1 Section 6: Evaluating Expressions

Problems

Evaluate each expression for the given value.

1. $x + 13; x = 8$

2. $25 - p; p = 16$

3. $y - 6; y = 9$

4. $2m + 7; m = 5$

5. $2(3k - 7); k = 4$

6. $9 - 2x; x = 2$

7. $4(n + 2n); n = 8$

8. $3c + 9c; c = 5$

9. $3(4f - f); f = 7$

10. $x^2 - 3; x = 9$

11. $z^4 - 107; z = 4$

12. $25 - 2a^3; a = 2$

13. $12 + 11y^3; y = 2$

14. $w + w^5; w = 3$

15. $5(3t^2 - 7t); t = 3$

In problems 16–18, evaluate $8r + 5s$ for the given values of r and s .

16. $r = 1$ and $s = 4$

17. $r = 5$ and $s = 7$

18. $r = 10$ and $s = 6$

In problems 19–24, evaluate the expression when $x = 2$ and $y = 3$.

19. $3x + 5y$

20. $7(x + 3y)$

21. $x^2 + x + 1$

22. $y^3 + x + y - 31$

23. $5x^4 - 7y^2$

24. $4(2x^2 + 9y^2)$

In problems 25–30, evaluate the expression when $m = 4$ and $n = 8$.

25. $mn + 5$

26. $n \div m + 19$

27. $mn + (m + n)$

28. $mn^2 + 6$

29. $3m^3 \div 2$

30. $3m^3 \div 2n$
