

Order of Operations and Evaluating Expressions Bell Work

Evaluate the expression for the given value of the variable.

1. $x^4 - 3$ when $x = 2$

2. $3 + 2x^3$ when $x = 2$

3. $a^3 + 10a$ when $a = 3$

4. $6 \cdot 2p^2 + 8$ when $p = 5$

5. $\frac{22}{x} \div 2 + 16$ when $x = 11$

6. $13 + 3b$ when $b = 7$

7. $(x - 5) \div 4$ when $x = 9$

8. $\frac{x}{7} + 16$ when $x = 14$

9. $5 \cdot 6y$ when $y = 5$

10. $\frac{4}{5} \div n + 13$ when $n = \frac{1}{5}$

11. $\frac{16}{x} - 2$ when $x = 4$

12. $y^4 \div 8$ when $y = 4$

Evaluate the expression for the given value of the variable.

13. $\frac{9 \cdot 2}{4 + x^2 - 1}$ when $x = 3$

14. $\frac{13y - 4}{18 - y^2 + 1}$ when $y = 4$

15. $\frac{2z^3 - 18}{1 + s^2 - 8}$ when $z = 5$ and $s = 6$