

Advanced Order of Operations with Exponents

Solve each expression.

1) $\{(-8) + [14 \div (-7)]\} \times 2^3 - (-2)$

2) $71 - \{2^3 + [3 \times (8^2 \div 64)]\}$

3) $2^4 + \{14 - [16 + (39 \div 13)]\}$

4) $(5 \times 4^3 \div 2^4) - [7 \times (17 - 13)]$

5) $(2 + 3)^2 \times \{[(6 - 2) + 1] + 5\}$

6) $\{6 \times [27 - (12 - 8)^2]\} \div 2$

7) $2.16 \div 6^2 - 13.06 + 12 \times 0.5$

8) $\{[5 + (9^2 \div 27)] + 18\} - 8$

Advanced Order of Operations with Exponents

Answers

1) $\{(-8) + [14 \div (-7)]\} \times 2^3 - (-2)$

2) $71 - \{2^3 + [3 \times (8^2 \div 64)]\}$

-78

60

3) $2^4 + \{14 - [16 + (39 \div 13)]\}$

4) $(5 \times 4^3 \div 2^4) - [7 \times (17 - 13)]$

11

-8

5) $(2 + 3)^2 \times \{[(6 - 2) + 1] + 5\}$

6) $\{6 \times [27 - (12 - 8)^2]\} \div 2$

250

33

7) $2.16 \div 6^2 - 13.06 + 12 \times 0.5$

8) $\{[5 + (9^2 \div 27)] + 18\} - 8$

-7

18