

Perform the exponentiation by hand. Then use a calculator to check your work.

a) 2^3

b) $(-4)^3$

c) $\left(-\frac{6}{7}\right)^2$

d) $-\left(\frac{2}{3}\right)^2$

Perform the indicated operations by hand. Then use a calculator to check your work.

a) $3 - 8 \div 4$

b) $4 + (-2)^3$

c) $3^3 - 2(3 - 5)^2 \div (-4)$

d) $\frac{4 - (-3)^3}{2 + 4^2}$

Evaluate $\frac{a-b}{c-d}$ for $a = -3$, $b = 5$, $c = 4$, and $d = -6$

Evaluate $3x^2$ for $x = -4$.

Evaluate $b^2 - 4ac$ for $a = -2$, $b = -3$ and $c = 5$.