

Answers

1. a) $7^6 = 117\,649$
b) $3^8 = 6561$
c) $5^3 = 125$
d) $3^9 = 19\,683$
e) $(-2)^5 = -32$
f) $(-1)^6 = 1$
g) $0.5^5 = 0.031\,25$
h) $\left(\frac{1}{2}\right)^4 = \frac{1}{16}$
2. a) $8^2 = 64$
b) $5^2 = 25$
c) $7^5 = 16\,807$
d) $4^2 = 16$
e) $(-9)^1 = -9$
f) $0.1^2 = 0.01$
g) $(-0.3)^3 = -0.027$
h) $\left(\frac{2}{3}\right)^2 = \frac{4}{9}$
3. a) $2^8 = 256$
b) $6^4 = 1296$
c) $3^6 = 729$
d) $(-2)^{12} = 4096$
e) $(-1)^{48} = 1$
f) $(-1)^{35} = -1$
g) $0.3^4 = 0.0081$
h) $\left(\frac{2}{5}\right)^4 = \frac{16}{625}$
4. a) $4^2 = 16$
b) $8^1 = 8$
c) $9^2 = 81$
d) $6^3 = 216$
e) $2^{11} = 2048$
f) $3^3 = 27$
g) $0.2^1 = 0.2$
h) $(-4)^2 = 16$