Simplifying Radicals with Variables

Level 1 - Simplify radicals involving integers and variables
Level 2 - Simplify radicals of higher degree

Answers:

Level 1

a) 4	**b)** 2	**c)** 5
d) 13	**e)** 1	**f)** i (or no solution)
g) 8	**h)** $4\sqrt{5}$	**i)** $3\sqrt{5}$
j) $6n$	**k)** $7\sqrt{x}$	**l)** $8xy$
m) $10a^2b\sqrt{2}$	**n)** $5m\sqrt{3n}$	**o)** $4y\sqrt{6xy}$
p) $8x^2\sqrt{6x}$	**q)** $-6mn\sqrt{2m}$	**r)** $-8pqr^2\sqrt{6q}$

Level 2

a) 2	**b)** 3	**c)** 2
d) 1	**e)** -1	**f)** -4
g) $2x$	**h)** $3xy\sqrt[3]{xy^2}$	**i)** $2y\sqrt[5]{x}$
j) $-2n^2\sqrt[3]{6n}$	**k)** $5n^2\sqrt[3]{2}$	**l)** $3x\sqrt[4]{8x}$
m) $4p^2q^4r\sqrt[4]{2}$	**n)** $-2xy^2\sqrt[5]{7}$	**o)** $-10a\sqrt[6]{4a^2}$