Answers to 2.2 Simplifying Radicals

1) When there is a negative radicand under a root with an even index

3) $5\sqrt{3}$ 5) $-3\sqrt[3]{7}$ 7) $4i\sqrt{6}$ 9) $2\sqrt{6}$

11) $-4n\sqrt[3]{7n^2}$

Absolute value is not necessary because there is a negative radicand.

13) $2v^2|u|\sqrt{3}$

Absolute value is only necessary for the u because:

1) Positve radicand
2) Even index
3) After simplified, u has an odd exponent

15) $2|x|\sqrt{6x}$ 17) $6i\sqrt{5a}$ 19) $7|x|\sqrt{6}$ 21) $-5x\sqrt[3]{7x^2}$

23) $2n^2\sqrt{2}$