Square roots: meaning, simplification and domain — Further practice

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Further practice 11

Simplify exactly. State any restriction that is needed.

$$\sqrt{\frac{1}{4}}$$

Further practice 12

Find all real values of x for which the expression is defined.

$$\sqrt{x-1}+\sqrt{4-x}$$

Further practice 13

Simplify exactly. State any restriction that is needed.

$$\sqrt{(0-2)^2}$$

Further practice 14

Simplify exactly. State any restriction that is needed.

$$(\sqrt{11})^2$$

Extension 15

Find all real values of x for which the expression is defined.

$$\frac{\sqrt{2x+1}}{\sqrt{3-x}}$$

Extension 16

Use this value to disprove the claim $\sqrt{x^2}=x$ for every real x.

$$\sqrt{(-2)^2}$$