

## Simplifying Square Roots - Homework

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Simplify each square root. Assume that all variables represent positive real numbers

1. $\sqrt{40}$	2. $\sqrt{24}$
3. $\sqrt{18}$	4. $2\sqrt{12x^{20}}$
5. $-3\sqrt{9x^{17}}$	6. $\sqrt{36a^8b^3}$
7. $\sqrt{\frac{3}{25}}$	8. $\sqrt{\frac{15}{49}}$
9. $\frac{5+\sqrt{12}}{7}$	10. $\frac{24+\sqrt{40}}{4}$
11. $\sqrt{\frac{28x^3}{y^{10}z^4}}$	12. $\sqrt{\frac{3x^{12}}{x^5}}$