

Simplifying Radicals 1 - KEY

Simplify Completely. Assume that all variables represent Positive Numbers.

1) $\sqrt{16} = 4$

2) $\sqrt{49} = 7$

3) $\sqrt{64} = 8$

4) $\sqrt{-81}$ Not Real

5) $6\sqrt{81} = 54$

6) $\sqrt{196} = 14$

7) $\sqrt{x^2} = x$

8) $\sqrt{9x^2} = 3x$

9) $\sqrt{25x^2} = 5x$

10) $\sqrt{x^4} = x^2$

11) $\sqrt{4x^6y^2} = 2x^3y$

12) $\sqrt{25x^2y^4} = 5xy^2$

13) $\sqrt{8} = 2\sqrt{2}$

14) $\sqrt{12} = 2\sqrt{3}$

15) $\sqrt{18} = 3\sqrt{2}$

16) $3\sqrt{20} = 6\sqrt{5}$

17) $\sqrt{24x^2y^4} = 2xy^2\sqrt{6}$

18) $\sqrt{6xy^2} = y\sqrt{6x}$

19) $2\sqrt{49x^3} = 14x\sqrt{x}$

20) $\sqrt{12xy^2} = 2y\sqrt{3x}$

21) $\sqrt{20x^3y^8}$
 $= 2xy^4\sqrt{5x}$