

Unit 2: Lesson 4: Simplifying Radicals HOMEWORK

Simplify.

1) $\sqrt{48}$

2) $\sqrt{128}$

3) $-2\sqrt{112}$

4) $\sqrt{80}$

5) $-5\sqrt{75v}$

6) $\sqrt{100n^2}$

7) $\sqrt{128k^4}$

8) $\sqrt{180k^3}$

9) $\sqrt{216k^3}$

10) $-5\sqrt{384m^4}$

Solve each equation by taking square roots. Leave answer in simplest radical form.

11) $x^2 - 4 = 35$

12) $n^2 - 3 = -2$

13) $3m^2 = 15$

14) $b^2 - 7 = 37$

15) $8x^2 = 440$

16) $36m^2 + 2 = 6$

17) $64k^2 - 2 = 7$

18) $2b^2 + 5 = 81$

19) $25x^2 + 4 = 68$

20) $3n^2 - 4 = 32$