

2.3 Simplify Radicals

Date _____ Period _____

Simplify.

1) $\sqrt{96}$

2) $\sqrt{252}$

3) $\sqrt{343}$

4) $\sqrt{200}$

5) $\sqrt{27}$

6) $\sqrt{12p}$

7) $\sqrt{288p^2}$

8) $\sqrt{128r^2}$

9) $\sqrt{24a^4}$

10) $\sqrt{252n^2}$

11) $6\sqrt{24}$

12) $-\sqrt{343}$

13) $-2\sqrt{294x}$

14) $2\sqrt{128n^3}$

15) $2a^{\frac{1}{2}} \cdot 3a$

Simplify. Your answer should contain only positive exponents.

16) $(r^4)^4$

17) $\frac{v^{\frac{3}{4}}}{2v^{\frac{3}{4}}}$

Factor each completely. (GCF)

18) $3p^2 + 21p$

Factor each completely. (X Factoring)

19) $b^2 - b - 42$

Factor each completely. (Difference of Squares)

20) $25x^2 - 1$