

Unit 3.4 Practice Divide Radicals with Rationalize the Denominator

Period _____

Simplify.

1) $\frac{2}{4 - 2\sqrt{5}}$

2) $\frac{3\sqrt{2}}{4\sqrt{5} - 4\sqrt{2}}$

3) $\frac{2}{4 + 5\sqrt{3}}$

4) $\frac{2}{2\sqrt{3} - 3}$

5) $\frac{3}{2 + 2\sqrt{2}}$

6) $\frac{4}{5 + 3\sqrt{2}}$

7) $\frac{2\sqrt{3} + 4\sqrt{2}}{-5 + 5\sqrt{3}}$

8) $\frac{-4 - 2\sqrt{5}}{3\sqrt{2} - 4}$

9) $\frac{2 - 4\sqrt{3}}{3 - 4\sqrt{5}}$

10) $\frac{5 - 2\sqrt{2}}{5 - 5\sqrt{2}}$

11) $\frac{-3 + 3\sqrt{3}}{4 - 4\sqrt{5}}$

12) $\frac{3 - 3\sqrt{5}}{5 + 4\sqrt{5}}$

13)
$$-\frac{5}{4\sqrt{5n^3} - 3\sqrt{n^3}}$$

14)
$$-\frac{1}{-2x - 3\sqrt{x}}$$

15)
$$-\frac{4}{4\sqrt{2b^4} - 5b^2}$$

16)
$$\frac{2p}{4p^3 + 3\sqrt{3p^4}}$$

17)
$$\frac{2}{-2 + 4\sqrt{b^3}}$$

18)
$$\frac{5}{2\sqrt{2x^2} + 4}$$

19)
$$\frac{2v - 2\sqrt{5u^4v^3}}{5\sqrt{2u^2v} + 5\sqrt{2u^4v^3}}$$

20)
$$\frac{3 + 3\sqrt{2x^2}}{5\sqrt{3x^2} - 5\sqrt{5x}}$$

21)
$$\frac{3v^2 - 3\sqrt{v^4}}{4\sqrt{5v^4} - 3\sqrt{3v^3}}$$

22)
$$\frac{5\sqrt{3n^4} - 4n}{-2 - 4\sqrt{2n^2}}$$

23)
$$\frac{5n + 4\sqrt{2n^4}}{-4 + 5\sqrt{n}}$$

24)
$$\frac{2 + 5\sqrt{5n}}{2\sqrt{3n^2} - 4\sqrt{5n^2}}$$