

Intermediate Algebra

7-2

(Day 2)

Properties of Radicals

Simplify.

44) $\sqrt{35} \cdot \sqrt{14}$

50) $\sqrt{5x^3y} \sqrt{10x^3y^4}$

58) $\sqrt{y} (\sqrt{y} - \sqrt{5})$

62) $(\sqrt{2x} + 4)^2$

68) $(\sqrt{2} - 3)(\sqrt{2} + 4)$

Conjugate pair -

Conjugate pair shortcut -

Simplify.

70) $(\sqrt{y} - 2)(\sqrt{y} + 2)$

A radical expression is in *Simplest Radical Form* when:

1) There are no perfect square factors beneath the the radical.

2)

3)

Simplify.

$$76) \frac{\sqrt{42a^3b^5}}{\sqrt{14a^2b}}$$

$$82) \frac{5}{\sqrt{5x}}$$

$$86) \frac{3}{\sqrt[3]{2}}$$

$$92) \frac{\sqrt{24a^2b}}{\sqrt{18ab^4}}$$

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| Assignment: pg. 390 44-92 even |
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