

# 11.8-11.9

## Adding and Subtracting Radicals & Multiplication of Binomials Containing Radicals

### Review

Simplify

1)  $7y - 9y + 8y$

2)  $\frac{3r}{2} - \frac{5r}{3}$

### Lesson

Simplify

3)  $8\sqrt{11} + 2\sqrt{11}$

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

### Lesson

Simplify

5)  $25\sqrt{2} + 2\sqrt{27} - 3\sqrt{98}$

$$6) \sqrt{15} - \sqrt{\frac{3}{5}}$$

$$7) \sqrt{\frac{5}{11}} - \sqrt{\frac{11}{5}}$$

## Review

$$8) (c + 4)(c - 4)$$

**Difference of Squares**

$$(a + b)(a - b) = a^2 - b^2$$

$$9) (x + 5)^2$$

**Perfect Square**

$$(a + b)^2 = a^2 + 2ab + b^2$$

## Lesson

**Simplify**

$$10) (\sqrt{7} - 5)(\sqrt{7} + 5)$$

## Lesson

Simplify

$$11) (\sqrt{7} + 11)^2$$

## Lesson

Simplify

$$12) (5\sqrt{5} - 2\sqrt{13})^2$$

## Lesson

Simplify

$$13) \frac{6}{3 - 2\sqrt{3}}$$

## Lesson

Simplify

$$14) \frac{3}{5 - 2\sqrt{7}}$$