

Homework

- Radical Functions Practice Sheet

Warm-up

$$\sqrt{x - 48} = 8 - \sqrt{x}$$

$$\sqrt{x-3} = 3 - \sqrt{x}$$

$$(3 - \sqrt{x})^2 = (3 - \sqrt{x})(3 - \sqrt{x})$$

	3	$-\sqrt{x}$
3	9	$-3\sqrt{x}$
$-\sqrt{x}$	$-3\sqrt{x}$	x

$$\sqrt{4-3} = 3 - \sqrt{4}$$

$$\sqrt{1} = 3 - 2$$

$$1 = 1 \checkmark$$

$$(\sqrt{x} - 3)^2 = (3 - \sqrt{x})^2$$

$$\cancel{\sqrt{x}} - 3 = 9 - 3\sqrt{x} - 3\sqrt{x} + \cancel{\sqrt{x}}$$

$$-3 = 9 - 6\sqrt{x}$$

$$-9 \quad 9$$

$$-12 = -6\sqrt{x}$$

$$-6 \quad -6$$

$$(\cancel{2})^2 = (\sqrt{x})^2$$

$$4 = x$$