1.19.16   You need a calculator today.
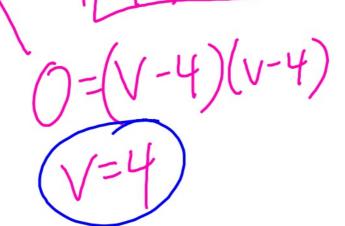
Solve the following radical equation. Check your solutions.

$$\left(\sqrt{2v-7}\right)^2 = (v-3)^2$$

$$2v-7 = (v-3)(v-3)$$

$$2v-7 = v^2-6v+9$$

$$-2v+7 \qquad -2v+7$$

$$0 = v^2-8v+16$$

	v	-4
v	v^2	$-4v$
-4	$-4v$	16

$$0 = (v-4)(v-4)$$

$$\boxed{v=4}$$

	v	-3
v	v^2	$-3v$
-3	$-3v$	$+9$

$$\sqrt{2(4)-7} = 4-3$$

$$\sqrt{1} = 1 \checkmark$$