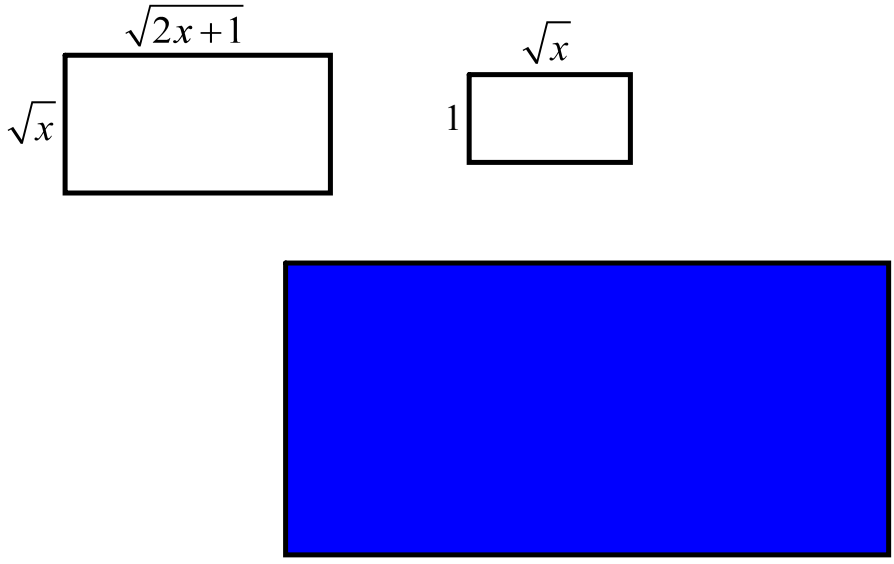
Try this:

If the difference between the lengths of the diagonals of the two rectangles shown equals 2 m, then determine the dimensions of the rectangles.



Try these:

1. $\sqrt{2x-1}+\sqrt{x-1}=1$

2. $\sqrt{x+1}+\sqrt{3x+1}=2$

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

4. $2\sqrt{x+6}-\sqrt{2x+10}=2$

5. $\sqrt{3x-2}-1=\sqrt{2x-3}$

Answers:

1. $x=1$ ($x=5$ is extraneous)

2. $x=0$ ($x=8$ is extraneous)

3. no solution ($x=1$ and $x=9$ are both extraneous)

4. $x=-5$ ($x=3$ is extraneous)

5. $x=2$, $x=6$