

$$56 \sqrt{36^2 + 15^2}$$

$$\begin{array}{r} 36 \\ \wedge \\ 2 \quad 18 \\ \wedge \\ 9 \quad 2 \\ \wedge \\ 3 \quad 3 \end{array} \qquad \begin{array}{r} 15 \\ \wedge \\ 3 \quad 5 \end{array}$$

$$(2^2 \cdot 3^2)^2 + (3 \cdot 5)^2$$

$$(3^2)(2^2+1)^2 + (3^2)(5^2)$$

now find when
all sides are
before

$$\sqrt{(2^2+1)^2 + (5^2)}$$

$$\sqrt{2^2+1^2}$$

$$\sqrt{1^2+1^2}$$

$$\sqrt{(2 \cdot 3)^2 + (3 \cdot 5)^2}$$

$$2 \cdot 3 \cdot 5$$

$$2 \cdot 3 \cdot 5$$

$$OP$$