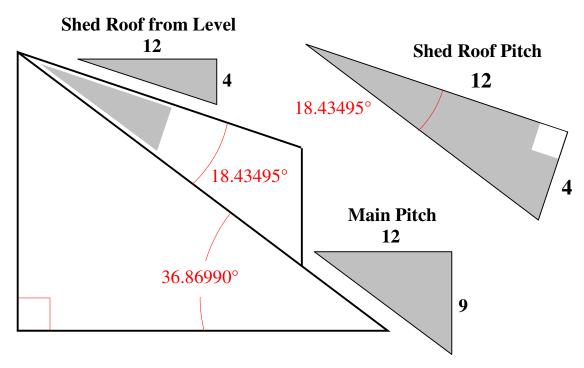
Sum of Pitches



Sum of Pitches =
$$\frac{\left(\text{Pitch } 1 + \text{Pitch } 2 \right)}{1 - \left(\text{Pitch } 1 \times \text{Pitch } 2 \right)}$$

The sum of the Shed roof pitch, and its pitch measured from level equal the Main Roof pitch.

Main Roof Pitch =
$$\frac{\left(\frac{4}{12} + \frac{4}{12}\right)}{1 - \left(\frac{4}{12} \times \frac{4}{12}\right)} = \frac{3}{4} = \frac{9}{12}$$

Main Roof Pitch Angle =
$$\arctan\left(\frac{9}{12}\right) = 36.86990^{\circ}$$