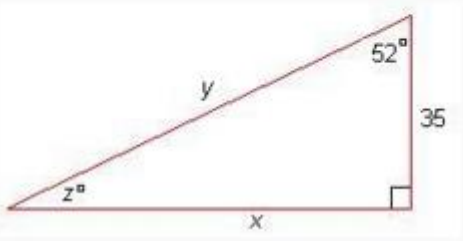
Answer on Question #58894 – Math – Trigonometry

Question

Just the answer please.

Fill in the blank. In the triangle below, $z^\circ =$



Solution

$\frac{x}{35} = tan52^0 \rightarrow x = 35tan52^0 \approx 44.80;$

$\frac{35}{y} = cos52^0 \rightarrow y = \frac{35}{cos52^0} \approx 56.85;$

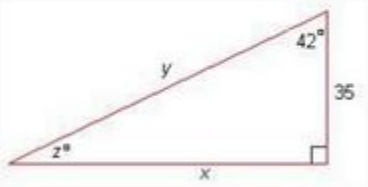
$z^\circ = 90^0 - 52^0 = 38^0.$

Answer: $z^\circ = 38^0.$

Question

Just the answer please.

Fill in the blank. In the triangle below, x = ____. Round your answer to two decimal places.



_____

Solution

$\frac{x}{35} = tan42^0 \ \rightarrow \ x = 35tan42^0 \approx 31.51;$

$\frac{35}{y} = cos42^0 \ \rightarrow \ y = \frac{35}{cos42^0} \approx 47.10;$

$z^\circ = 90^0 - 42^0 = 48^0.$

Answer: $x = 31.51.$