Infinite Algebra 1

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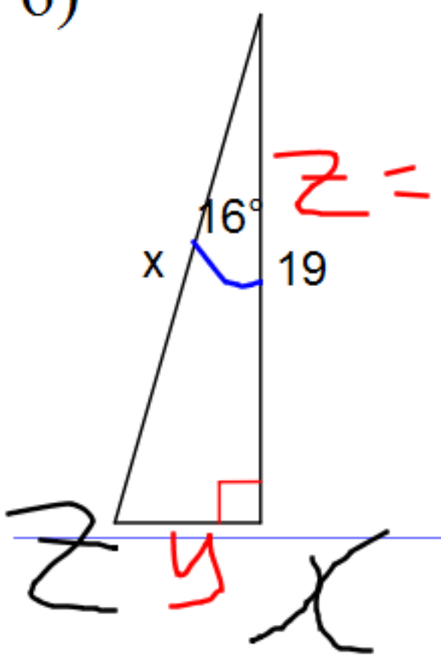
Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

6)



$x = 90^\circ$ $x = 19.8$

$y = 16^\circ$ $y = 5.6$

$z = 74^\circ$ $z = 19$

$180 - (90+16)$

$\cos 16^\circ = \frac{A}{H}$

$\cos 16^\circ = \frac{19}{x}$

$x \cos 16^\circ = 19$

$\frac{x \cos 16^\circ}{\cos 16^\circ} = \frac{19}{\cos 16^\circ}$

$x = 19.8 \cos 16$

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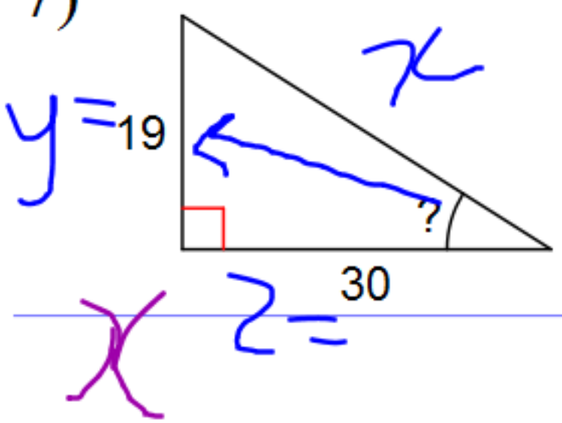
Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

$x = 90^\circ$ $x = 35.5u$

$y = 32^\circ$ $y = 19u$

$z = 58^\circ$ $z = 30u$

7)



$x^2 =$ y

$z = 180 - (90 + 32)$

$z = 58^\circ$

$\tan y = \frac{O}{A}$

$\tan y = \frac{19}{30}$

$\tan y = 0.633$,

$\tan^{-1} = 32^\circ$

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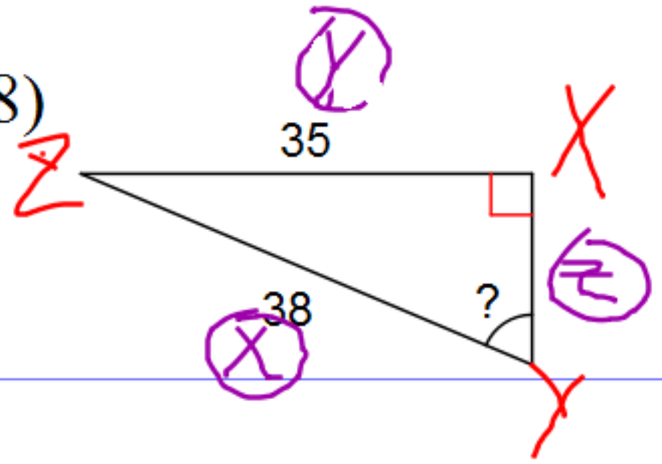
Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

8)



$\angle X = 90^\circ$ $X = 38$

$\angle Y = 67^\circ$ $Y = 35$

$\angle Z = 23^\circ$ $Z = 14.8$

$a^2 + b^2 = c^2$

$y^2 + z^2 = z^2$

$35^2 + z^2 = 38^2$

$z^2 = 38^2 - 35^2$

$z^2 = 219$

$z = 14.8$

$\sin Y = \frac{O}{H}$

$\sin Y = \frac{35}{38}$

$\sin^{-1} Y = 0.9211$

$\angle Y = 67^\circ$

$180 - (90 + 67)$

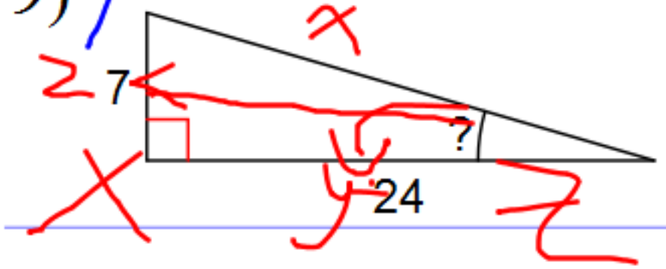
$180 - 157$

23

Solve the triangle. Communicate your solution carefully. Side: nearest tenth. Angle: nearest degree.

Tan

9)



$X = 90^\circ \quad X = 25u$

$Y = 74^\circ \quad y = 24u$

$Z = 16^\circ \quad z = 7u$

$\tan z = \frac{7}{24}$

$\tan z = 0.2917$

$\tan z = 16^\circ$

$y + 180 - (90 + 16)$

$y = 74^\circ$

$a^2 + b^2 = c^2$

$(24)^2 + (7)^2 = x^2$

$576 + 49 = x^2$

$\sqrt{625} = \sqrt{x^2}$

$25 = x$

Area