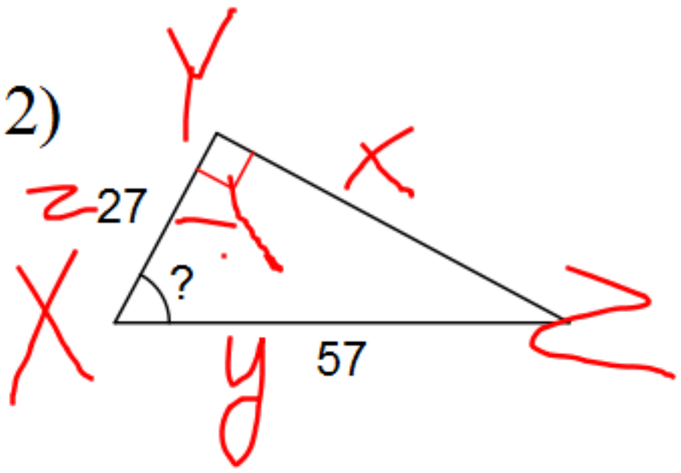
Infinite Algebra 1

Question numbers | Show answers | Directions | Changing questions hides answers | Lines | Zoom: | More like these | ← | Jump | → | 1-up

Find the measure of the indicated angle to the nearest degree.

12)



$X - 62^\circ \times 50.2$

$Y - 90^\circ \quad y \quad 57$

$\angle 28^\circ \quad \angle 27$

$\cos X = \frac{a}{h}$

$\cos X = \frac{27}{57}$

$\cos X = 0.4737$

$\cos^{-1} X = 62$

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

$a^2 + 27^2 = 57^2$

$a^2 + 729 = 3249 \quad -729$

$\sqrt{a^2} = \sqrt{2520}$

$a = 50.2$

$180 - (90 + 62)$

$180 - 152$

28

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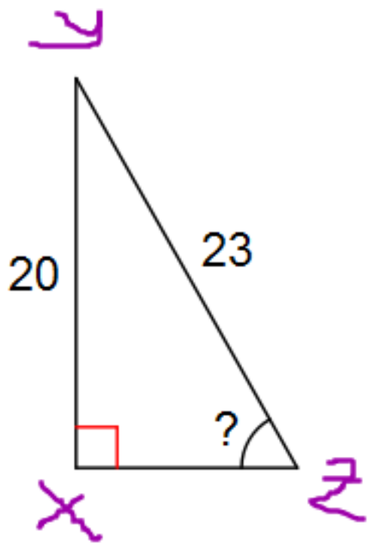
Find the measure of the indicated angle to the nearest degree.

7)



$x = 90°$ $x = 23$

$y = 30°$ $y = 11.4$

$z = 60°$ $z = 20$

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

$\sin z = \frac{20}{23}$

$\sin z = 0.8696$

$\sin^{-1} z = 60°$

$\angle y = 180 - (90 + 60)$

$\angle y = 180 - 150$

$\angle y = 30$

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

$20^2 + b^2 = 23^2$

$400 + b^2 = 529$

$b^2 = 129$

$b = 11.4$

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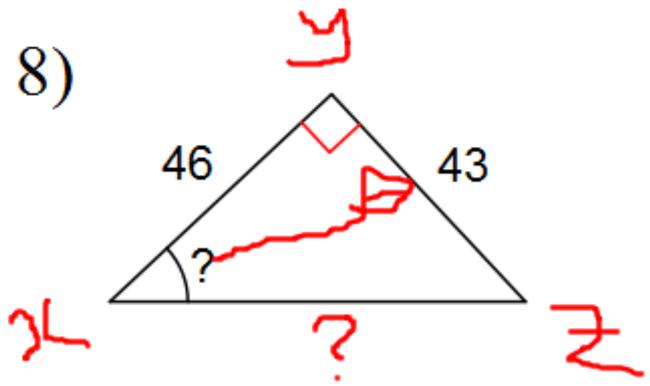
Find the measure of the indicated angle to the nearest degree.

8)



$x = 43^\circ$ $x = 43$

$y = 90^\circ$ $y = 63$

$z = 47^\circ$ $z = 46$

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

$\tan x = \frac{43}{46}$

$\tan x = 0.9348$

$\tan^{-1} x = 43^\circ$

$\angle z = 180 - (90 + 43)$

$= 180 - 133$

$= 47^\circ$

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

$43^2 + 46^2 = c^2$

$1849 + 2116 = c^2$

$\sqrt{3965} = \sqrt{c^2}$

$62.9 = c$

$63 = c$

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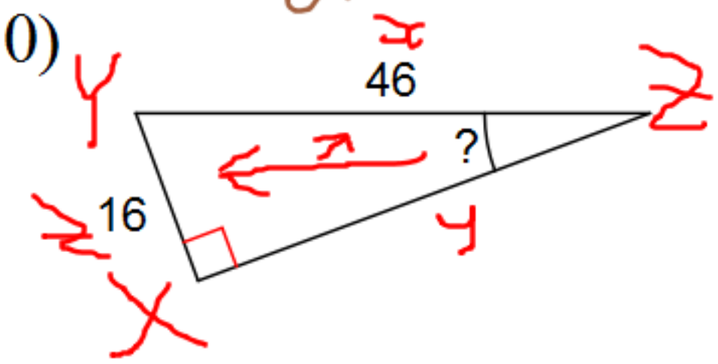
Find the measure of the indicated angle to the nearest degree.

hypotenuse

10)



$X = 90°$ $x = 46$

$Y = 70°$ $y = 43$

$Z = 20°$ $z = 16$

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

$180 - 110$

$= 70$

$\sin Z = \frac{16}{46}$

$\sin Z = 0.3478$

$\sin^{-1} Z = 20.3$

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

$16^2 + b^2 = 46^2$

$256 + b^2 = 2116$

$\sqrt{b^2} = \sqrt{1860}$

$b = 43.1$