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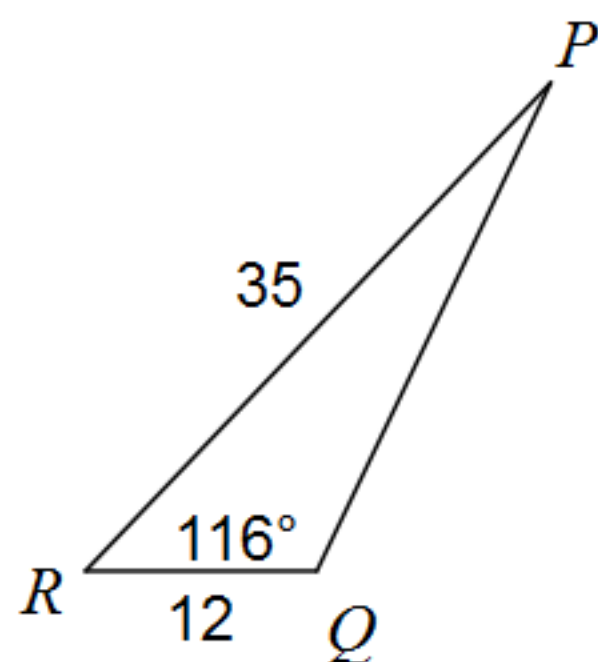Lines   Zoom:

Find each measurement indicated. Round your answers to the nearest tenth.

24) Find $m\angle P$

$$\frac{\sin P}{p} = \frac{\sin Q}{q}$$

$$\frac{\sin P}{12} = \frac{\sin 116}{35}$$
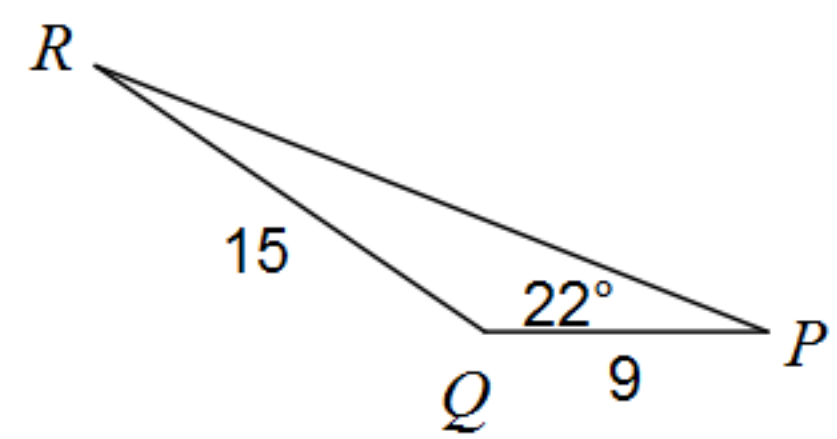
$$\frac{35\sin P}{35} = \frac{12\sin 116°}{35}$$

$$\sin P = 0.3082$$

$$\sin^{-1} P = 18°$$

$$\angle P = 18°$$

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

Find each measurement indicated. Round your answers to the nearest tenth.

25) Find $m\angle R$

$$\frac{\sin R}{r} = \frac{\sin P}{p}$$
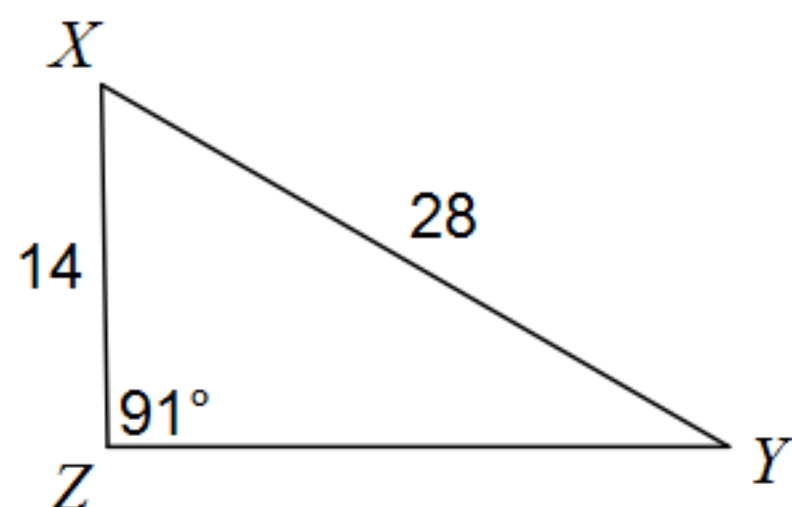
$$\frac{\sin R}{9} = \frac{\sin 22^\circ}{15}$$

$$\frac{15\sin R}{15} = \frac{9\sin 22^\circ}{15}$$

$$\sin R = 0.2248$$

$$\sin^{-1} R = 13^\circ$$

Infinite Algebra 2

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

Find each measurement indicated. Round your answers to the nearest tenth.

26) Find $m\angle Y$

Handwritten work:

$$\frac{\sin Y}{y} = \frac{\sin Z}{z}$$

$$\frac{\sin Y}{14} = \frac{\sin 91°}{28}$$

$$\frac{28 \sin Y}{28} = \frac{14 \sin 91°}{28}$$
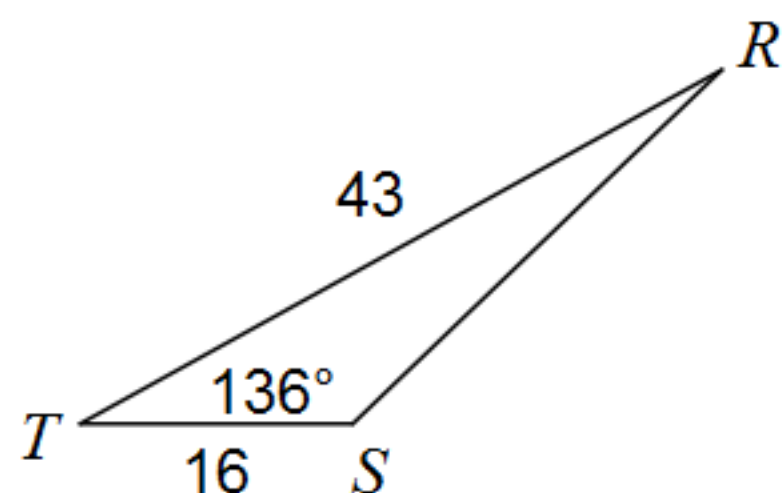
$$\sin Y = 0.4999$$

$$\sin^{-1} Y = 29.99$$

$$\angle Y = 30°$$

Find each measurement indicated. Round your answers to the nearest tenth.

27) Find $m\angle R$

$$\frac{\sin R}{r} = \frac{\sin S}{s}$$

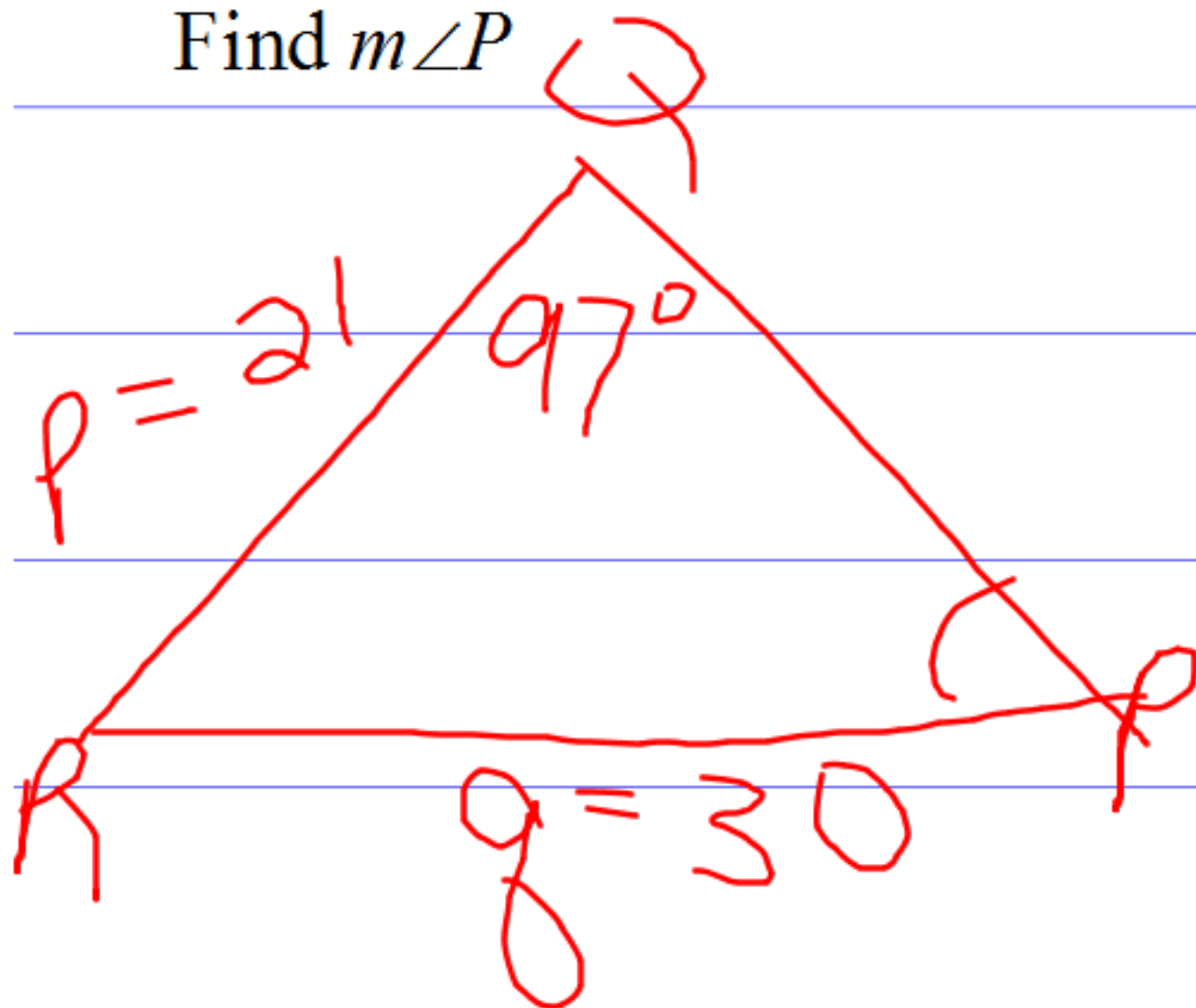$$\frac{\sin R}{16} = \frac{\sin 136°}{43}$$

$$43\sin R = 16\sin 136$$

$$\frac{43\sin R}{43} = \frac{16\sin 136}{43}$$

$$\sin R = 0.2585$$

$$\sin^{-1} R = 14.9$$

$$\angle R = 15°$$

Infinite Algebra 2

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

Find each measurement indicated. Round your answers to the nearest tenth.

28) In $\triangle RPQ$, $m\angle Q = 97°$, $q = 30$, $p = 21$
     Find $m\angle P$

$p = 21$ $97°$ $q = 30$

$$\frac{\sin P}{p} = \frac{\sin Q}{q}$$

$$\frac{\sin P}{21} = \frac{\sin 97°}{30}$$

$$\frac{30 \sin P}{30} = \frac{21 \sin 97°}{30}$$

$$\sin P = 0.6947$$

$$\angle P = 44°$$

Infinite Algebra 2

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

Find each measurement indicated. Round your answers to the nearest tenth.

29) In $\triangle YZX$, $m\angle Z = 61°$, $y = 4$, $z = 7$
     Find $m\angle Y$
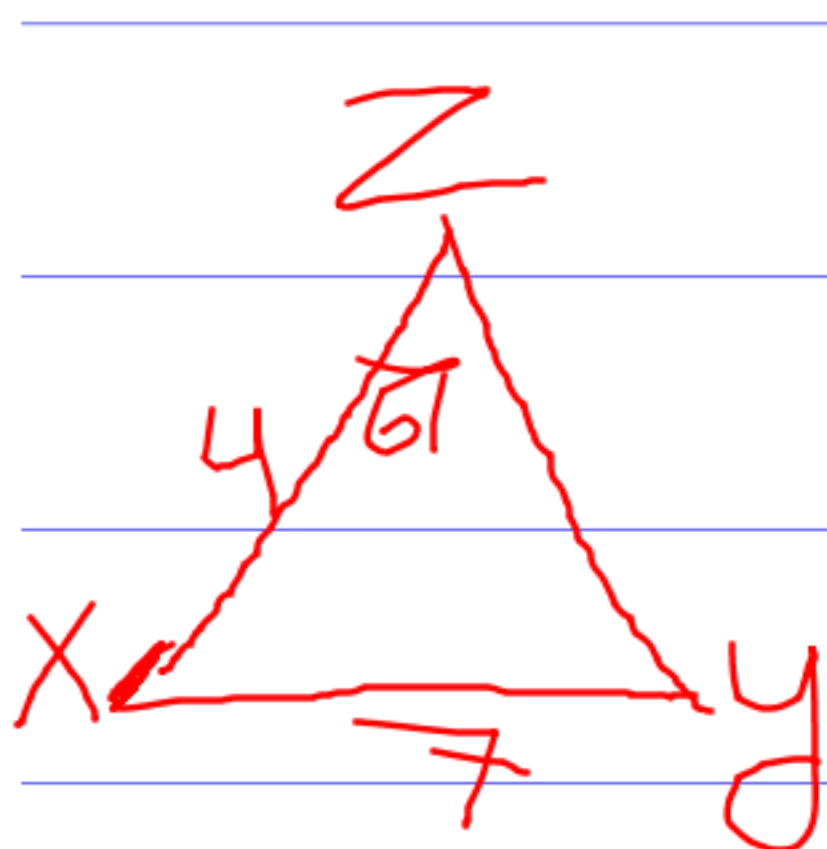
$$\frac{\sin Y}{y} = \frac{\sin Z}{z}$$

$$\frac{\sin Y}{4} = \frac{\sin 61}{7}$$

$$\frac{7\sin Y = 4\sin 61}{7}$$

$$\sin = 0.4998 \longrightarrow \boxed{\sin = 30°}$$

Question numbers Show answers
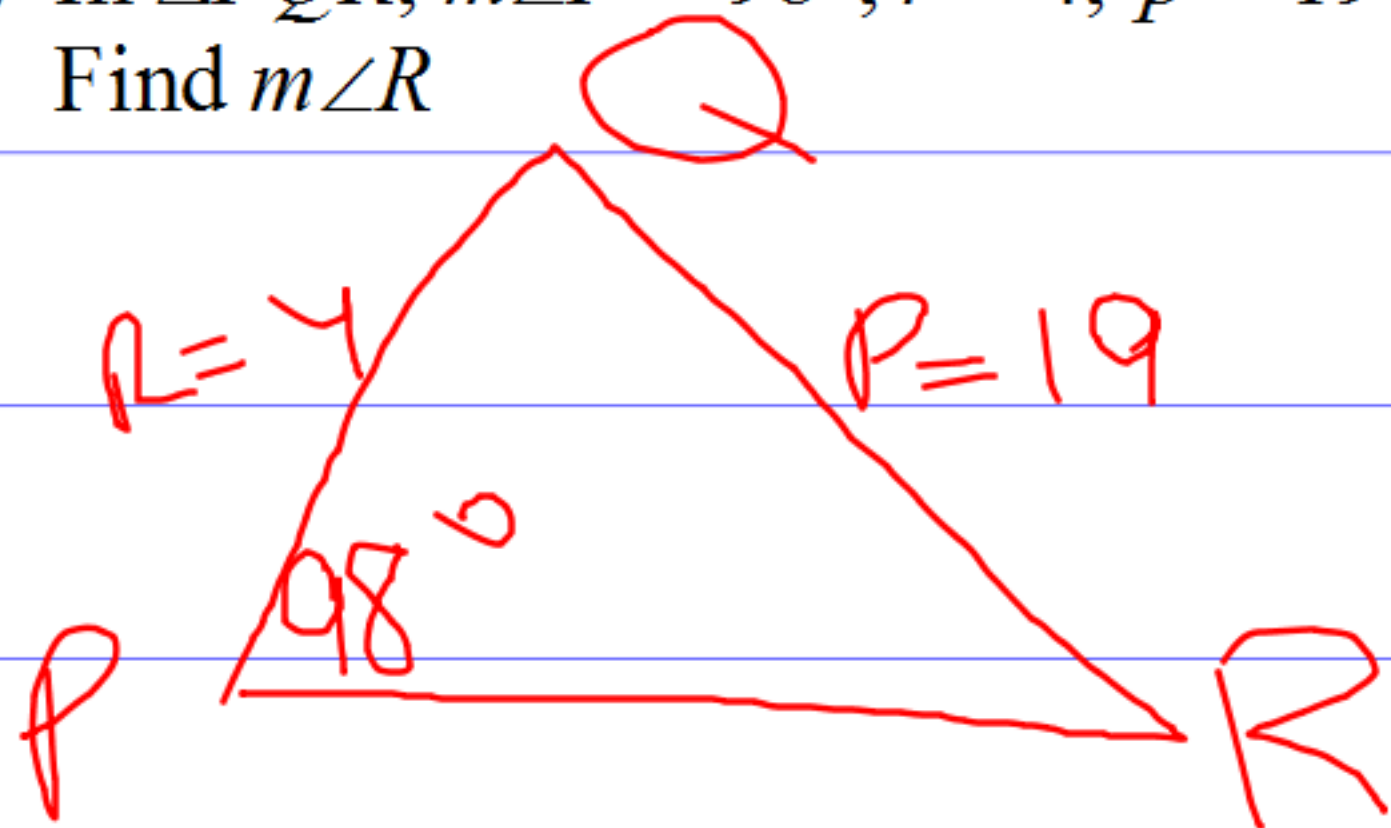Directions Changing questions hides answers
Lines Zoom:

More like these ← Jump → 1-up

Find each measurement indicated. Round your answers to the nearest tenth.

30) In $\triangle PQR$, $m\angle P = 98°$, $r = 4$, $p = 19$
Find $m\angle R$

$$\frac{\sin R}{r} = \frac{\sin P}{p}$$

$$\frac{\sin R}{4} = \frac{\sin 98}{19}$$

$$\sin$$