

May 15

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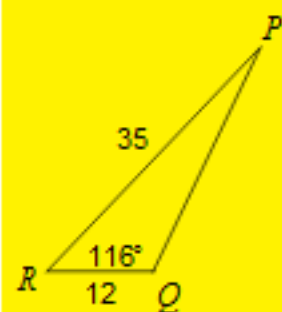
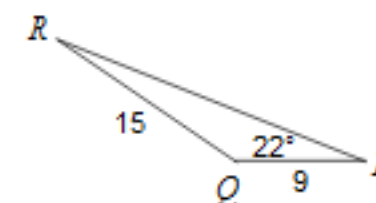
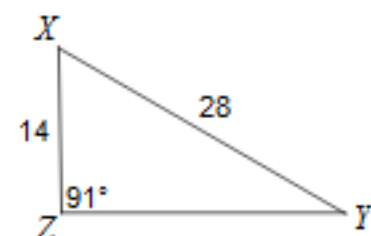
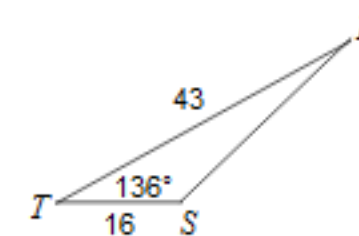
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44 questions

Current question sets (7):

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 0 × Custom Question
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 5 × Law of Sines - Finding All Missing Parts

24) Find $m\angle P$ 25) Find $m\angle R$ 26) Find $m\angle Y$ 27) Find $m\angle R$ 

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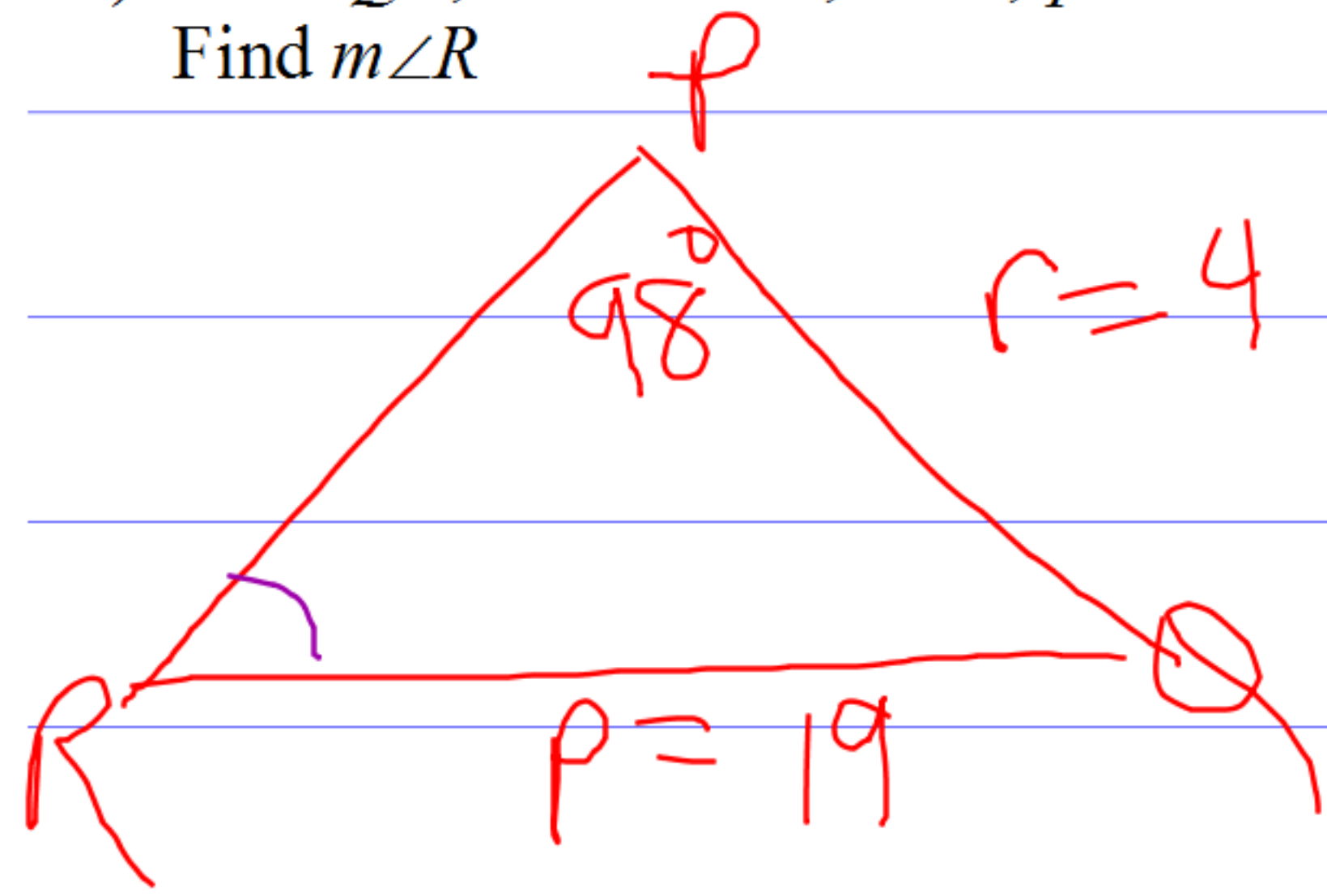
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1-up

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

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



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

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

$$19 \sin R = 4 \sin 98$$

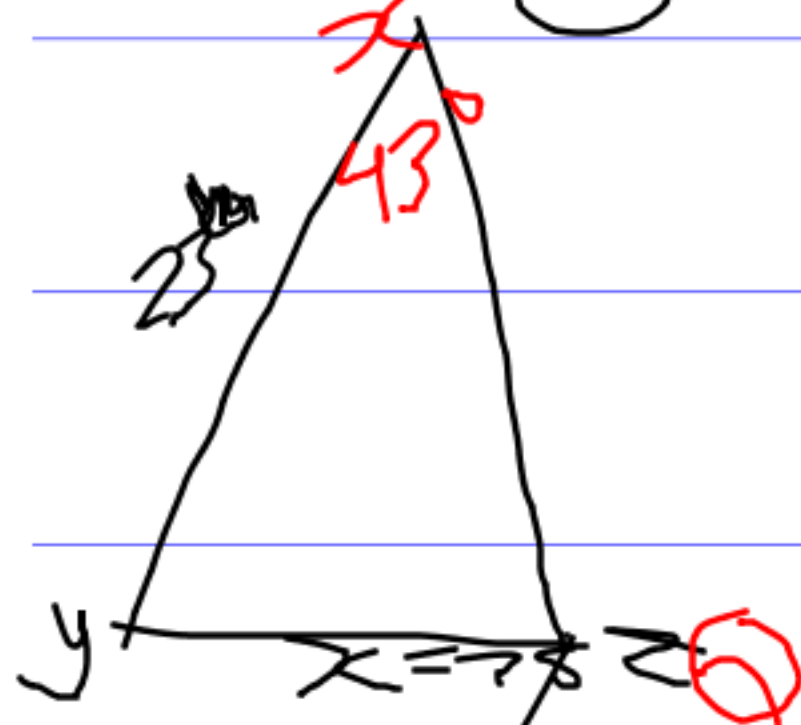
$$\sin R = 0.2055$$

$$\sin^{-1} R = 12.08^\circ$$

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

31) In $\triangle YZX$, $m\angle X = 43^\circ$, $x = 28$, $z = 23$

Find $m\angle Z$



$$\frac{\sin Z}{z} = \frac{\sin X}{x}$$

$$\frac{\sin Z}{23} = \frac{\sin 43^\circ}{28}$$

$$28 \sin Z = \frac{23 \sin 43^\circ}{28}$$

$$\sin Z = 0.5602$$

$$Z = 34^\circ$$

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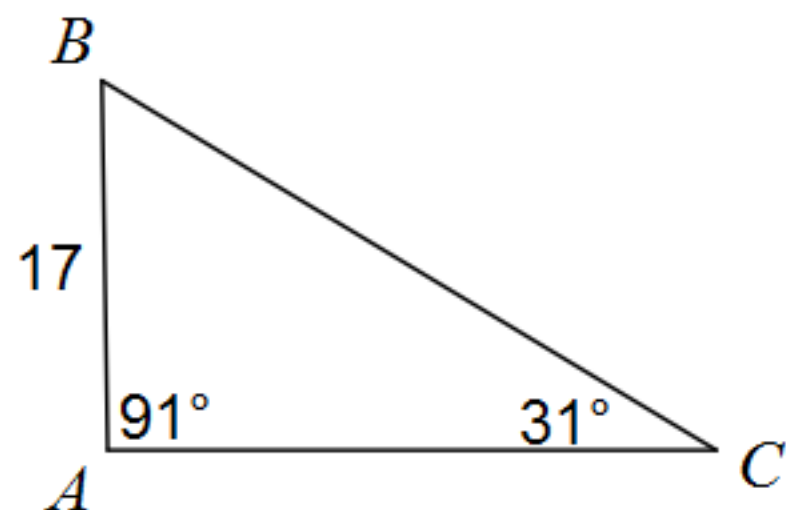
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1-up

Solve each triangle. Round your answers to the nearest tenth.

34)



$$\angle B = 180 - (91 + 31)$$

$$\angle B = 180 - 122$$

$$\angle B = 58^\circ$$

$$\begin{aligned} \angle A &= 91^\circ & a &= 33 \\ \angle B &= 58^\circ & b &= 28 \\ \angle C &= 31^\circ & c &= 17 \end{aligned}$$

$$\frac{a}{\sin A} = \frac{c}{\sin C}$$

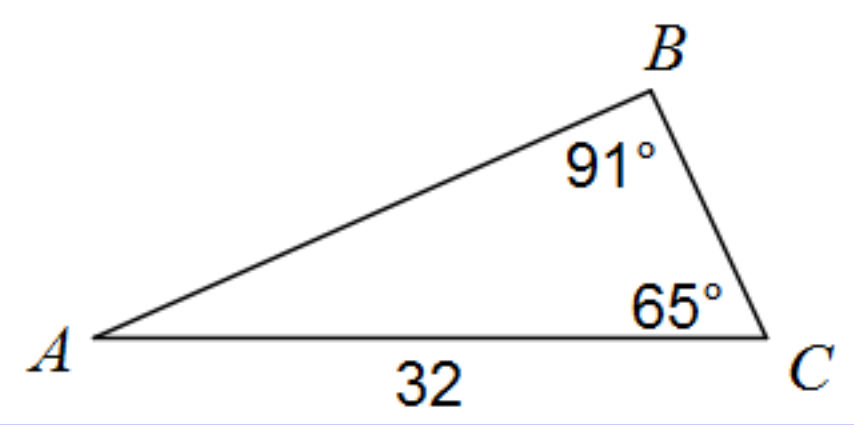
$$\frac{a}{\sin 91} = \frac{17}{\sin 31}$$

$$\frac{a \sin 31}{\sin 31} = \frac{17 \sin 91}{\sin 31}$$

$$a = 33$$

Solve each triangle. Round your answers to the nearest tenth.

35)



$$\begin{aligned} \angle A &= 24^\circ & a &= 13 \\ \angle B &= 91^\circ & b &= 32 \\ \angle C &= 65^\circ & c &= 29 \end{aligned}$$

$$\angle A = 180 - 91 + 65$$

$$\angle A = 180 - 156 = 24^\circ$$

$$\frac{a}{\sin A} = \frac{c}{\sin C}$$

$$\frac{a}{\sin 24} = \frac{29}{\sin 65}$$

$$a \sin 65 = \frac{29 \sin 24}{\sin 65}$$

$$a = 13$$

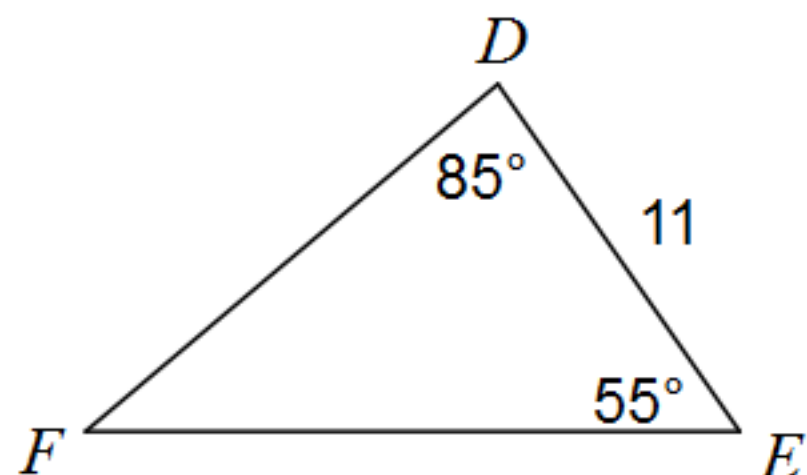
$$\frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{32}{\sin 91} = \frac{c}{\sin 65}$$

$$\frac{32 \sin 65}{\sin 91} = \frac{c \sin 91}{\sin 91} \quad c = 29$$

Solve each triangle. Round your answers to the nearest tenth.

36)



$$180 - (85 + 55) =$$

$$180 - 140 = 40$$

$$\angle D = 85^\circ \quad d = 17.1$$

$$\angle E = 55^\circ \quad e = 14$$

$$\angle F = 40^\circ \quad f = 11$$

$$\frac{d}{\sin D} = \frac{f}{\sin F}$$

~~$$\frac{d}{\sin 85^\circ} = \frac{11}{\sin 40^\circ}$$~~

$$d = 17.1$$

$$d \sin 40^\circ = 11 \sin 85^\circ$$

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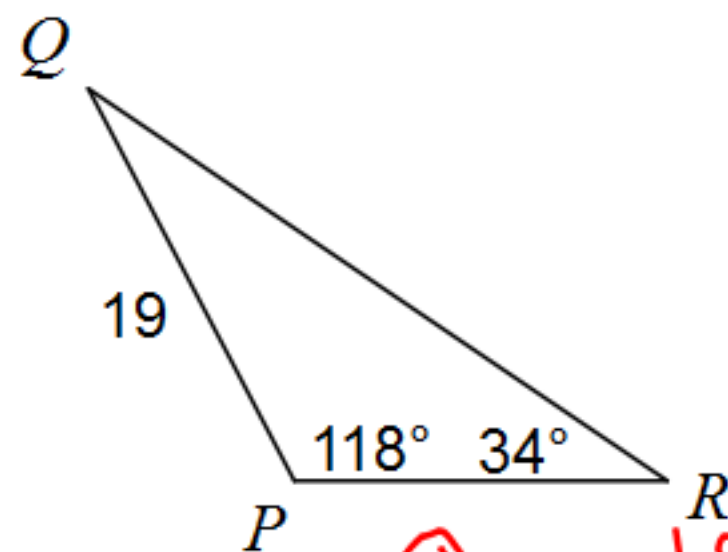
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1-up

Solve each triangle. Round your answers to the nearest tenth.

37)



$$\begin{aligned} \angle P &= 118^\circ \\ \angle Q &= 28^\circ \\ \angle R &= 34^\circ \end{aligned}$$

$$\begin{aligned} p &= 32 \\ q &= 16 \\ r &= 17 \end{aligned}$$

$$\begin{aligned} \angle Q &= 180 - (118 + 34) \\ \angle Q &= 28 \end{aligned}$$



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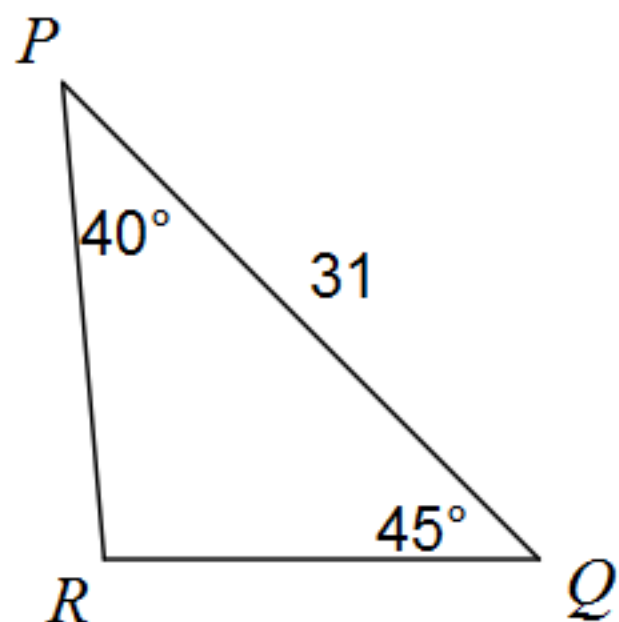
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1-up

Solve each triangle. Round your answers to the nearest tenth.

38)

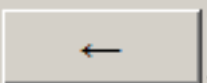


$$\begin{aligned} \angle P &= 40^\circ \\ \angle Q &= 45^\circ \\ \angle R &= 95^\circ \end{aligned} \quad \begin{aligned} p &= 20 \\ q &= 22 \\ r &= 31 \end{aligned}$$

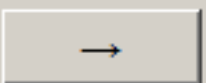
$$\begin{aligned} \angle R &= 180 - (40 + 45) \\ \angle R &= 95^\circ \end{aligned}$$

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Jump



1-up

Solve each triangle. Round your answers to the nearest tenth.

38)

