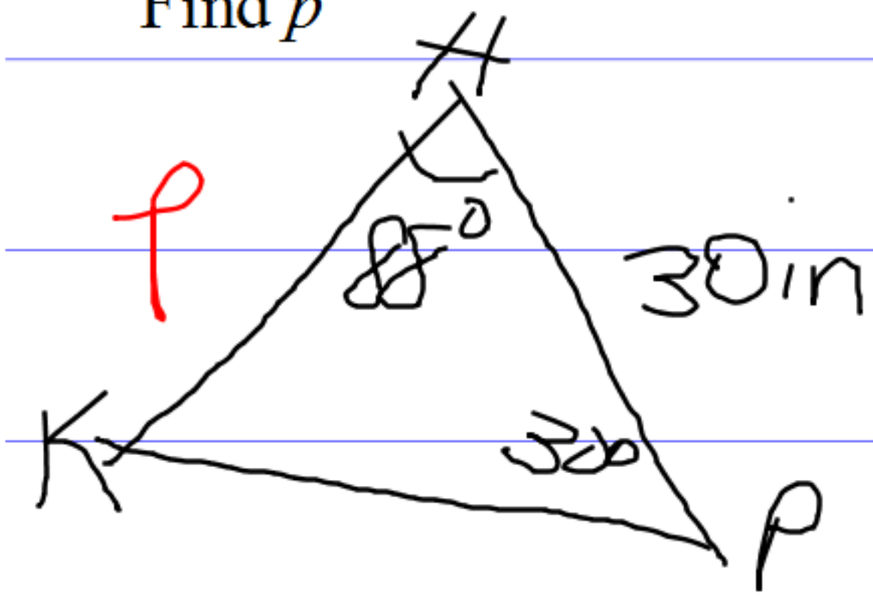
Find each measurement indicated. Round your answers to the nearest tenth.

12) In ΔHPK, $m\angle H = 88°$, $m\angle P = 30°$, $k = 30$ in
Find p



$\frac{p}{\sin P} = \frac{k}{\sin K}$

$\angle k = 180 - (88 + 30)$

$\angle k = 180 - 118$

$\angle k = 62°$

$\frac{p}{\sin 30°} = \frac{30}{\sin 62°}$

$\frac{p \sin 62°}{\sin 62°} = \frac{30 \sin 30°}{\sin 62°}$

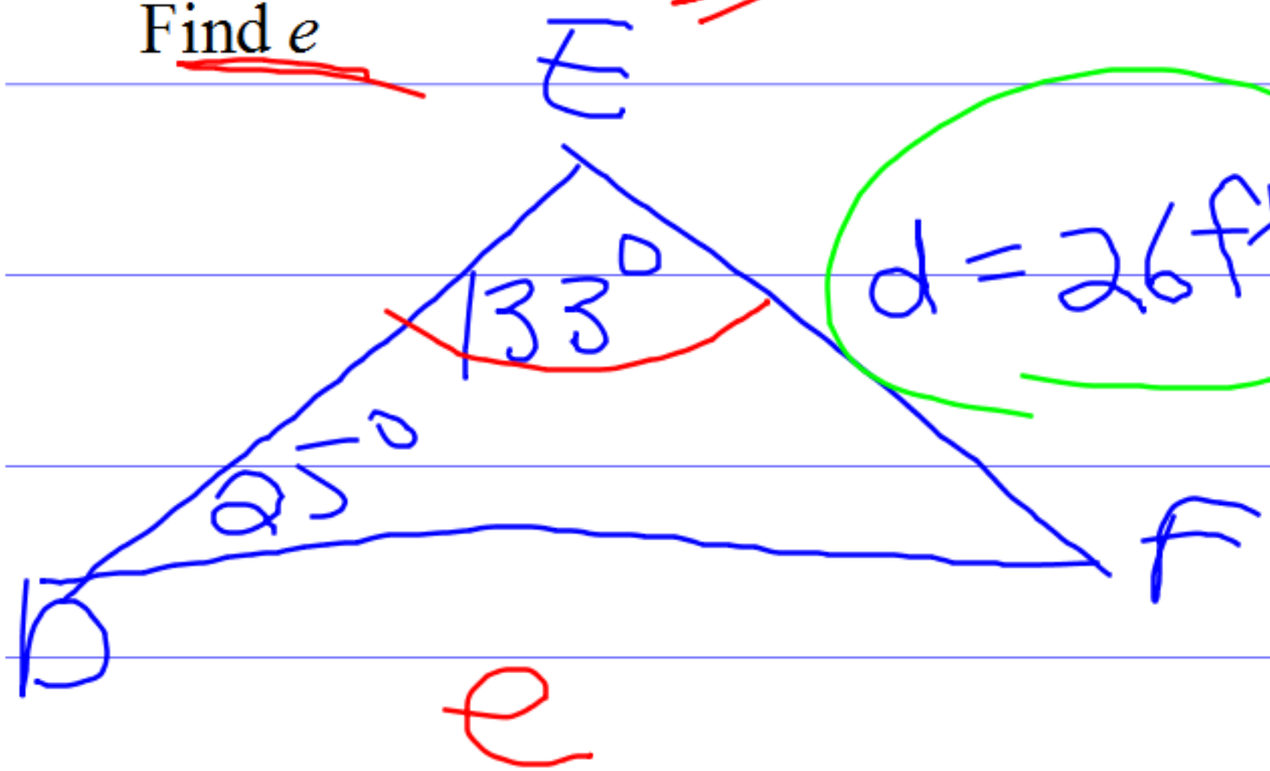
$p = 16.98$

$p \approx 17$ in

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

13) In ΔEFD, $m\angle E = 133°$, $m\angle D = 25°$, $d = 26$ ft

Find e



$$\frac{e}{\sin E} = \frac{d}{\sin D}$$

$$\frac{e}{\sin 133^\circ} = \frac{26}{\sin 25^\circ}$$

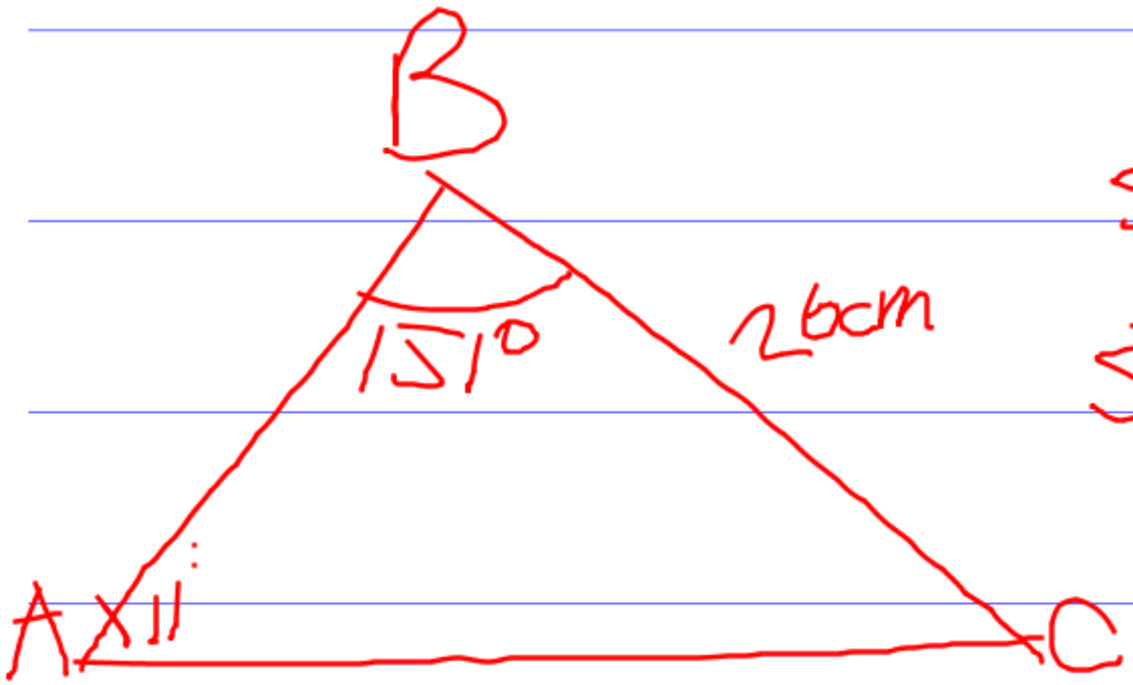
$$\frac{e \sin 25^\circ}{\sin 25^\circ} = \frac{26 \sin 133^\circ}{\sin 25^\circ}$$

$$e \approx 44.99$$

$$e \approx 45 \text{ ft}$$

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

14) In ΔBCA, $m\angle B = 151°$, $m\angle A = 11°$, $a = 26$ cm
Find b



$$\frac{b}{\sin B} = \frac{a}{\sin A}$$

$$\frac{b}{\sin 151} = \frac{26}{\sin 11}$$

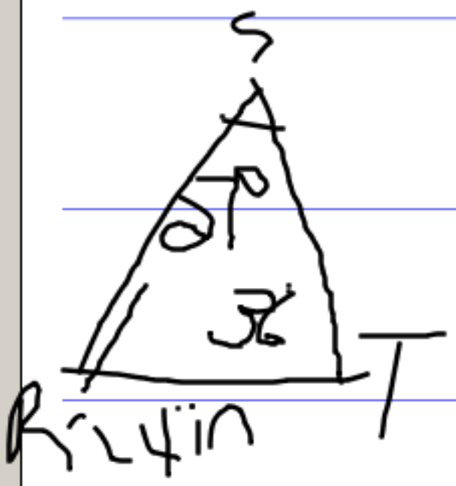
$$\frac{b \sin 11}{\sin 11} = \frac{26 \sin 151}{\sin 11}$$

$$b = 66.06$$

$$b = 66.4 \text{ m}$$

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

15) In ΔRST, $m\angle S = 27°$, $m\angle T = 36°$, $s = 24$ in
Find t



$$\frac{t}{\sin T} = \frac{s}{\sin S}$$

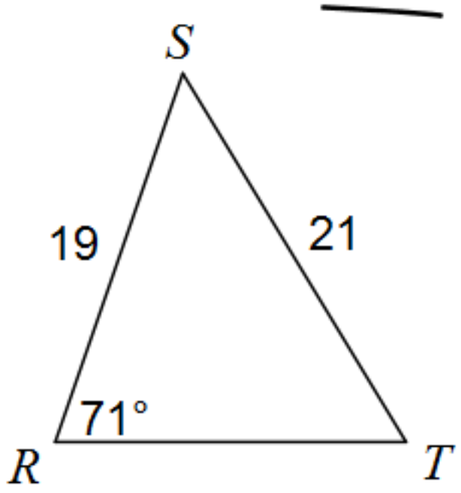
$$\frac{t}{\sin 36} = \frac{24}{\sin 27}$$

$$t\,\frac{\sin 27}{\sin 27} = \frac{24 \sin 36}{\sin 27}$$

$$t = 31 \text{ in}$$

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

18) Find $m\angle T$



$$\frac{\sin T}{t} = \frac{\sin R}{r}$$

$$\frac{\sin T}{19} = \frac{\sin 71^\circ}{21}$$

$$21 \sin T = 19 \sin 71^\circ$$

$$\frac{21}{21}\sin T = \frac{19}{21}\sin 71^\circ$$

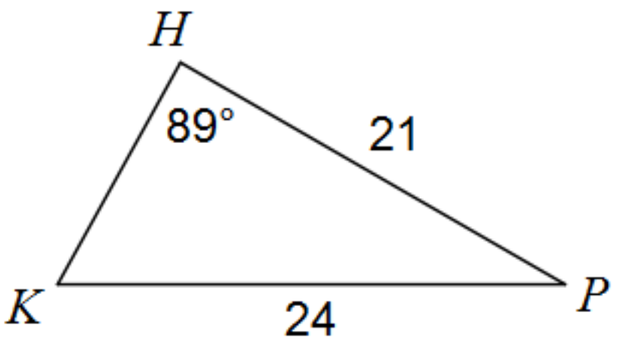
$$\sin T = 0.8555$$

$$\sin^{-1} T = 58.8^\circ$$

$$mT = 58.8$$

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

19) Find $m\angle K$



$$\frac{\sin K}{k} = \frac{\sin H}{h}$$

$$\frac{\sin K}{21} = \frac{\sin 89}{24}$$

$$\frac{24 \sin K}{24} = \frac{21 \sin 89^\circ}{24}$$

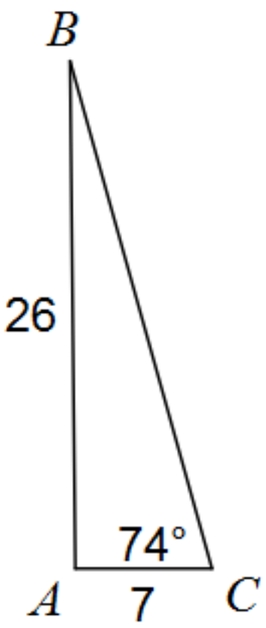
$$\sin K = 0.8749$$

$$\sin^{-1} K = 61^\circ$$

$$\angle K = 61^\circ$$

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

20) Find $m\angle B$



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

$$\frac{\sin B}{7} \rightarrow \frac{\sin 74}{26}$$

$$\frac{26 \sin B}{26} = \frac{7 \sin 74}{26}$$

$$\sin B = 0.2588$$

$$= 15^{-1}$$