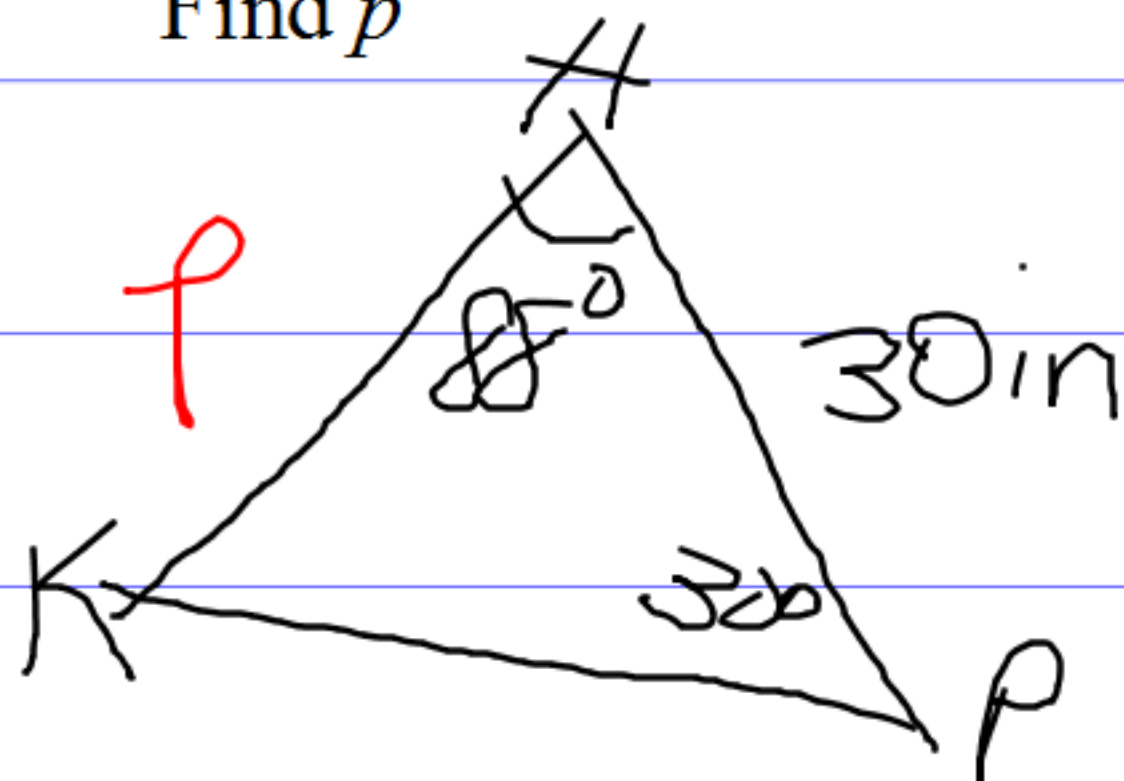


Find each measurement indicated. Round your answers to the nearest tenth.

12) In  $\triangle HPK$ ,  $m\angle H = 88^\circ$ ,  $m\angle P = 30^\circ$ ,  $k = 30$  in

Find  $p$



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

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

$$\angle K = 180 - 118$$

$$\angle K = 62^\circ$$

$$\frac{p}{\sin 30^\circ} = \frac{30}{\sin 62^\circ}$$

$$\frac{p \sin 62^\circ}{\sin 62^\circ} = \frac{30 \sin 30^\circ}{\sin 62^\circ}$$

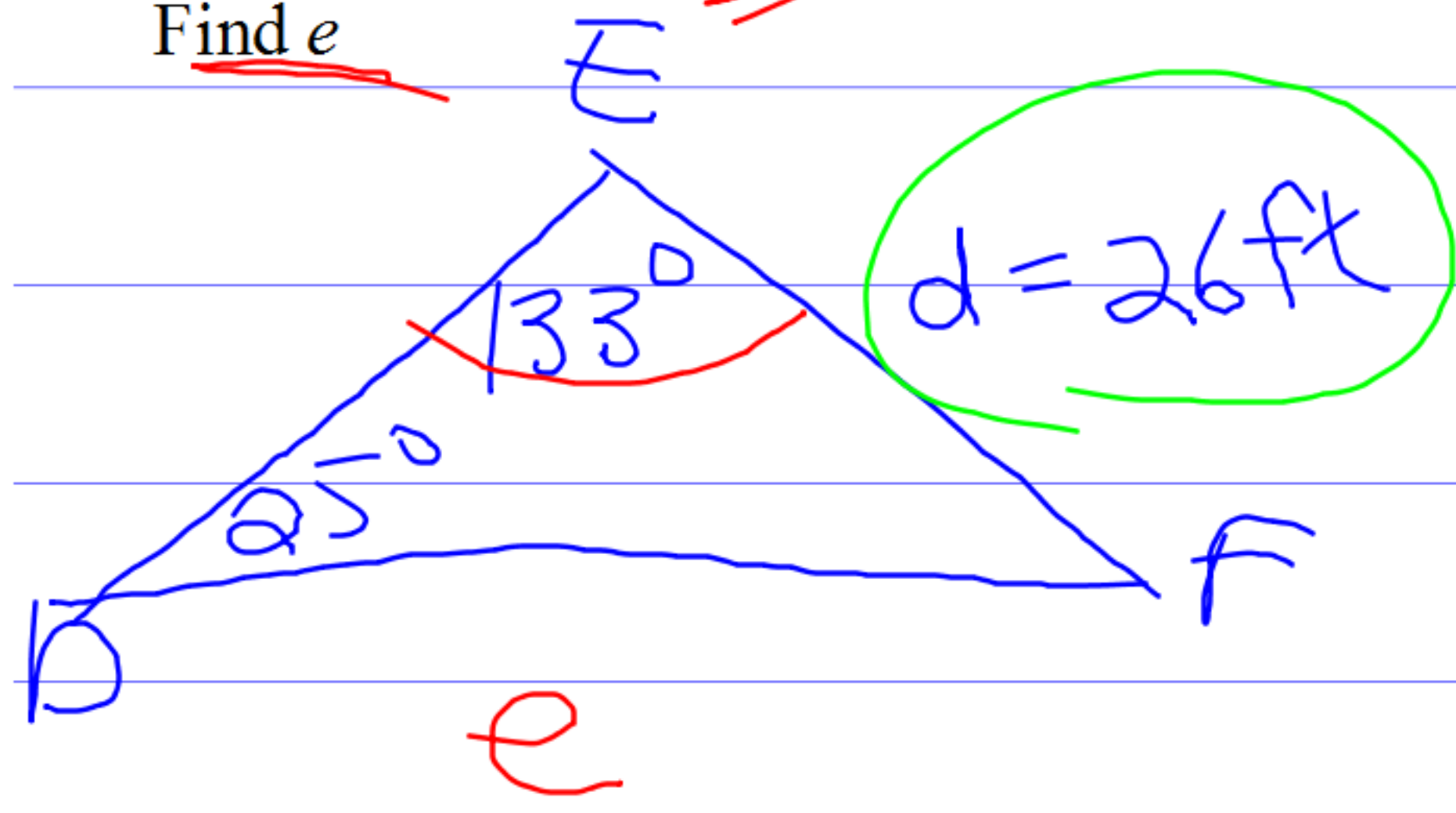
$$p = 16.98$$

$$p \approx 17 \text{ in}$$

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

13) In  $\triangle EFD$ ,  $m\angle E = 133^\circ$ ,  $m\angle D = 25^\circ$ ,  $d = 26$  ft

Find  $e$



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

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

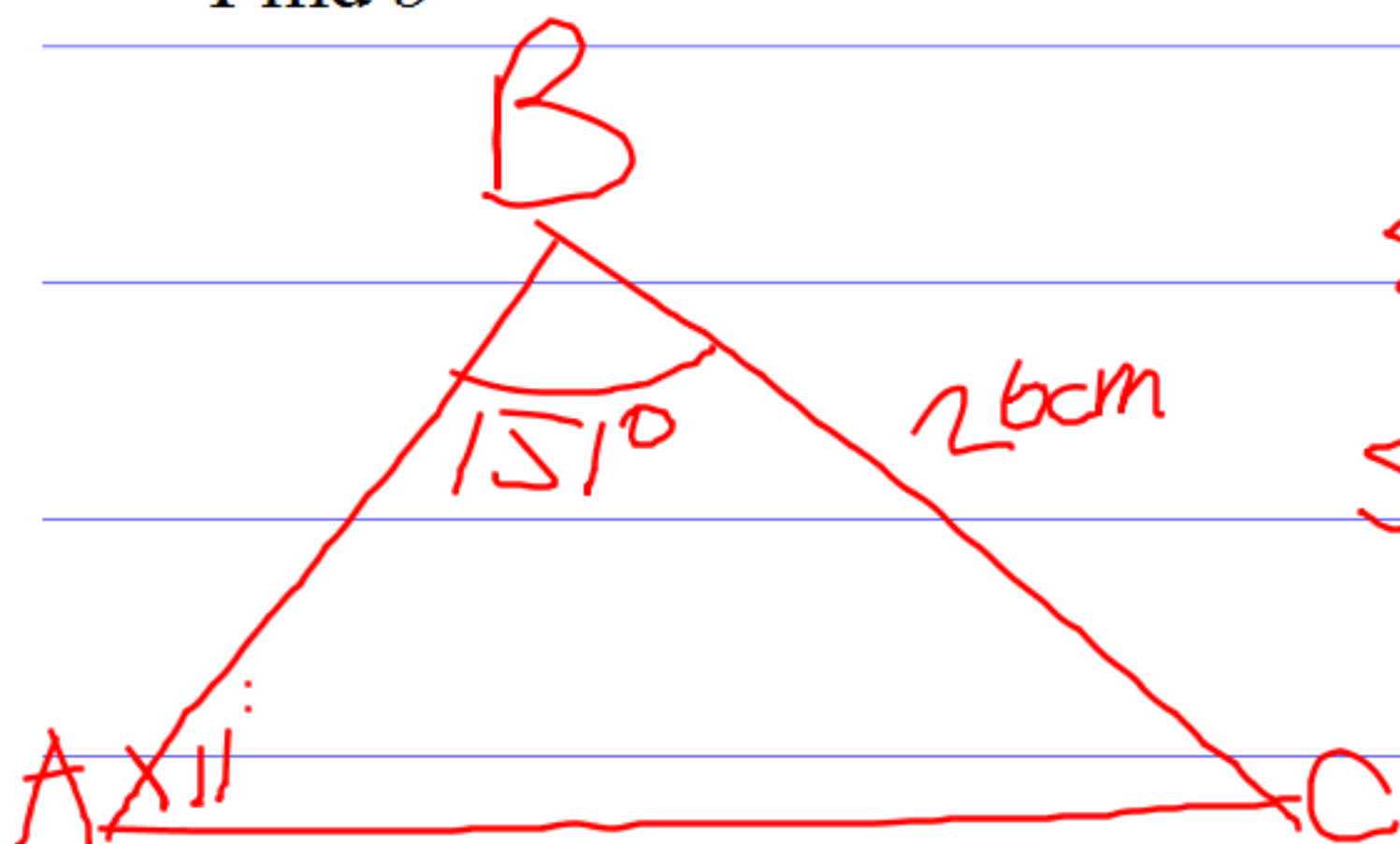
$$\frac{e \sin 25^\circ}{\sin 25^\circ} = \frac{26 \sin 133^\circ}{\sin 25^\circ}$$

$$e = \frac{44.99}{1} = 45 \text{ ft}$$

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

14) In  $\triangle BCA$ ,  $m\angle B = 151^\circ$ ,  $m\angle A = 11^\circ$ ,  $a = 26$  cm

Find  $b$



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

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

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

$$b = 66.06$$

$$b = 66.1 \text{ cm}$$

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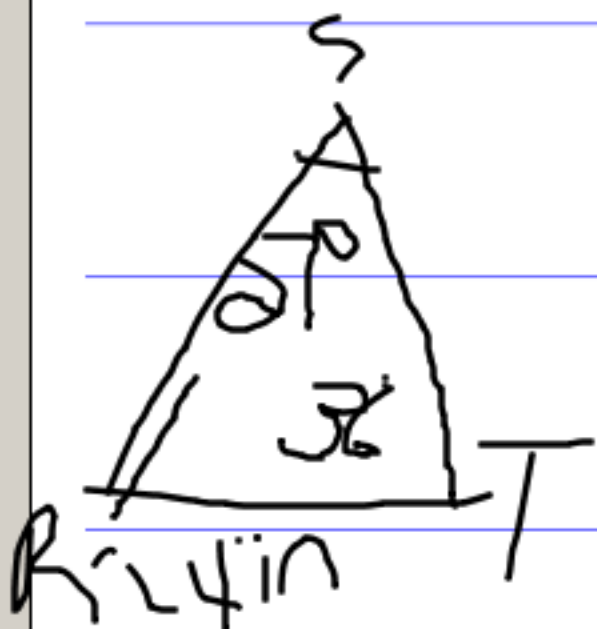
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Find each measurement indicated. Round your answers to the nearest tenth.

15) In  $\triangle RST$ ,  $m\angle S = 27^\circ$ ,  $m\angle T = 36^\circ$ ,  $s = 24$  in

Find  $t$



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

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

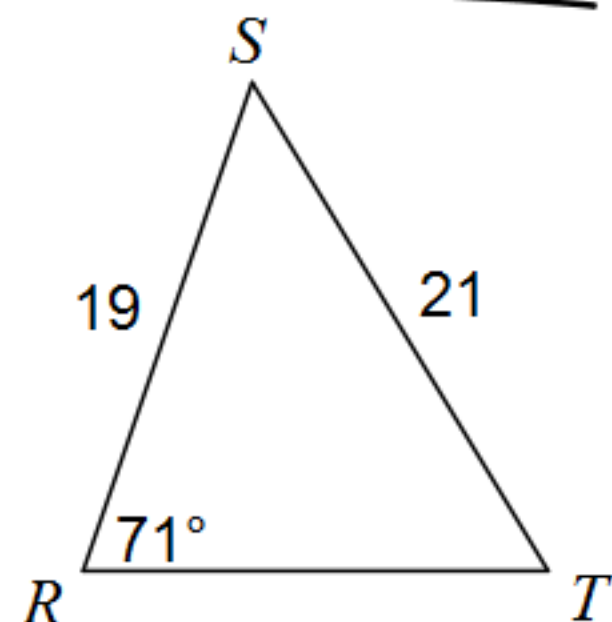
$$t \frac{\sin 27}{\sin 36} = \frac{24 \sin 36}{\sin 27}$$

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



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

18) Find  $m\angle T$



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

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

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

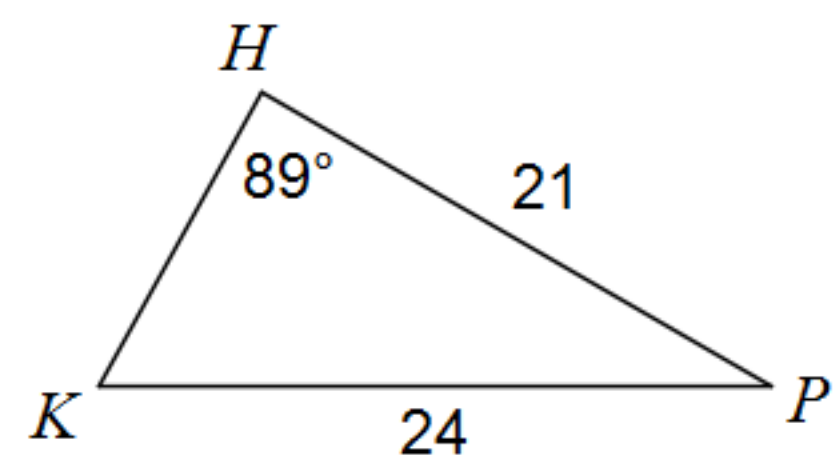
$$\sin T = 0.8555$$

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

$$\angle T = 58.8$$

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

19) Find  $m\angle K$



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

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

$$24 \sin K = 21 \sin 89^\circ$$

$$\sin K = 0.8749$$

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

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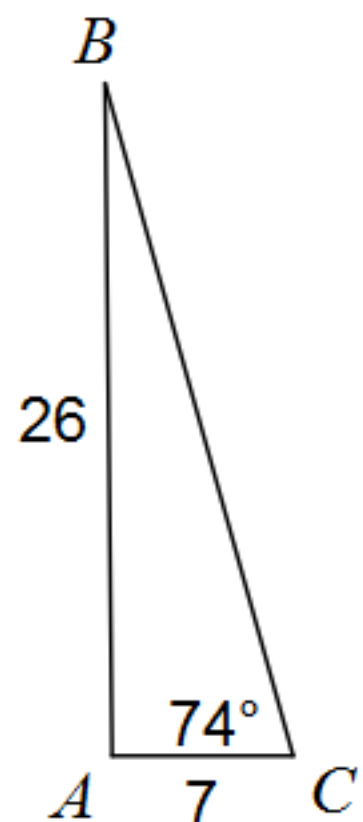
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1-up

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

20) Find  $m\angle B$



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

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

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

$$\sin B = 0.2588$$
$$= 15^\circ$$