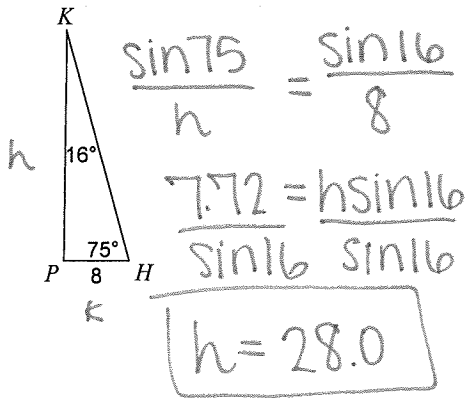


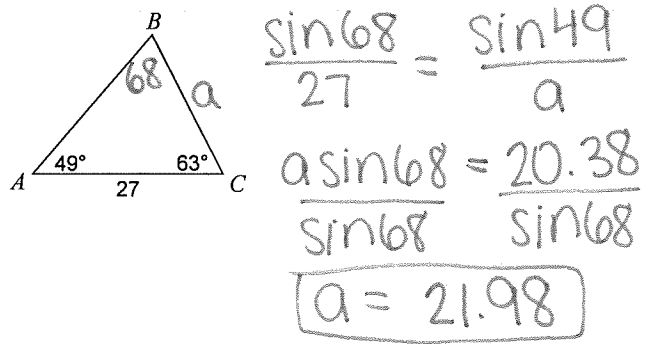
Extra Practice

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

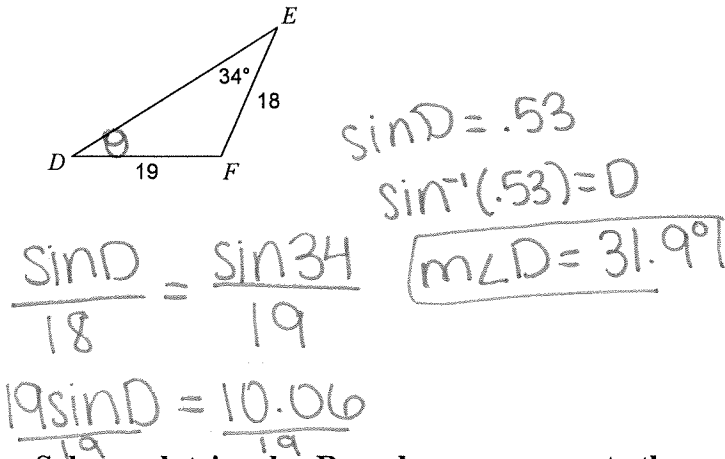
1) Find KP



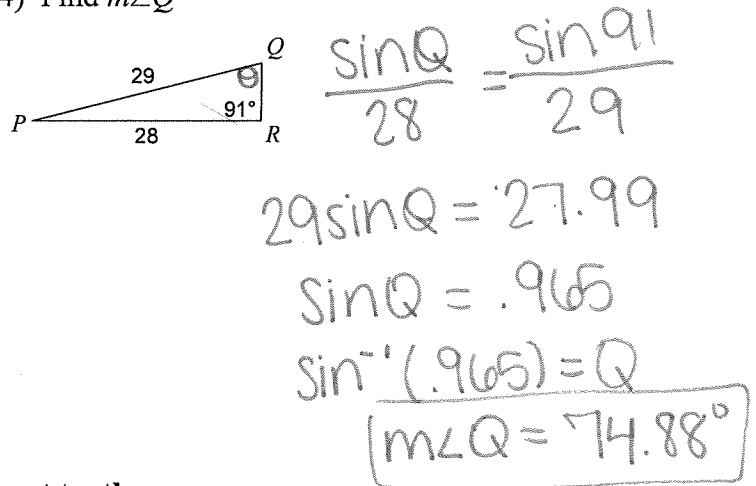
2) Find BC



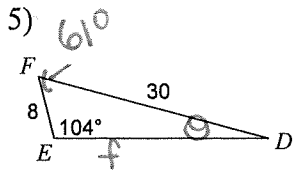
3) Find $m\angle D$



4) Find $m\angle Q$



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



$$\frac{\sin D}{8} = \frac{\sin 104}{30}$$

$$\frac{30 \sin D}{30} = \frac{7.76}{30}$$

$$\sin D = .259$$

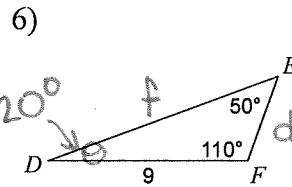
$$\sin^{-1}(.259) = 14.99$$

$$m\angle D \approx 15^\circ$$

$$\frac{\sin 61}{f} = \frac{\sin 104}{30}$$

$$26.24 = f \sin 104$$

$$27 \approx f$$



$$\frac{\sin 110}{f} = \frac{\sin 50}{9}$$

$$8.46 = f \sin 50$$

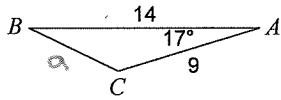
$$f \approx 11$$

$$\frac{\sin 20}{d} = \frac{\sin 50}{9}$$

$$d \approx 4.1$$

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

7) Find BC



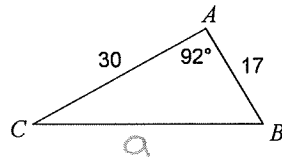
$$a^2 = 14^2 + 9^2 - 2(14)(9)\cos(17)$$

$$a^2 = 277 - 240.99$$

$$a^2 = 36.01$$

$$a = 6$$

8) Find BC



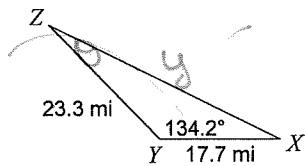
$$a^2 = 30^2 + 17^2 - 2(30)(17)\cos(92)$$

$$a^2 = 1189 + 35.59$$

$$\sqrt{a^2} = \sqrt{1224.59}$$

$$a = 33.96$$

9) Find $m\angle Z$

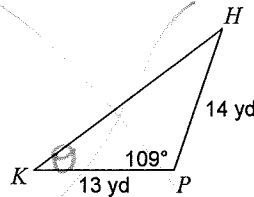


~~$$y^2 = 23.3^2 + 17.7^2 - 2(23.3)(17.7)\cos(134.2)$$

$$313.29 = 1855.28 - 1653.82\cos(134.2)$$

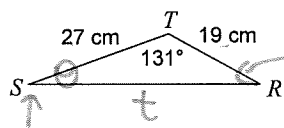
$$2091 = \cos(134.2)$$~~

10) Find $m\angle K$



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

11)



$$t^2 = 27^2 + 19^2 - 2(27)(19)\cos(131)$$

$$t^2 = 1090 + 673.11$$

$$t = 41.99$$

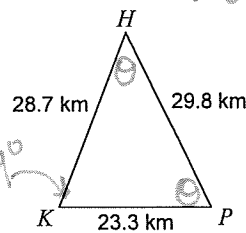
find $m\angle S$:

$$19^2 = 27^2 + 42^2 - 2(27)(42)\cos S$$

$$361 = 2493 - 2268\cos S$$

$$\cos S = .94 \rightarrow \cos^{-1}(.94) = 19.9^\circ = m\angle S$$

12)



$$m\angle H: 23.3^2 = 28.7^2 + 29.8^2 - 2(28.7)(29.8)\cos H$$

$$542.89 = 1711.73 - 1710.52\cos H$$

$$.68 = \cos H$$

$$\cos^{-1}(.68) = m\angle H$$

$$m\angle H = 46.89^\circ$$

$$m\angle P: 28.7^2 = 29.8^2 + 23.3^2 - 2(29.8)(23.3)\cos P$$

$$823.69 = 1430.93 - 1388.68\cos P$$

$$\cos P = .43$$

$$\cos^{-1}(.43) = 64.07^\circ = m\angle P$$

cos

cos