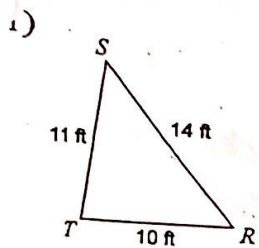


Area of Triangles

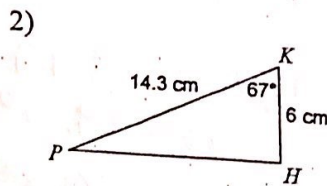
Find the area of each triangle to the nearest tenth.

Law Sin
cos
pg 536

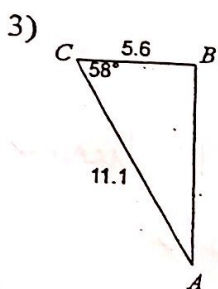
Name Key Date _____



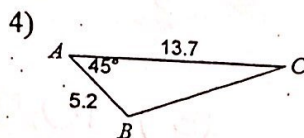
$A = 54.64 \text{ ft}^2$



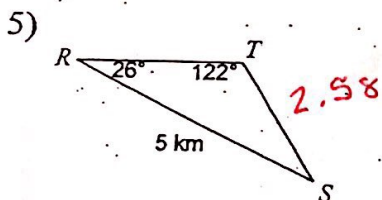
$A = 39.49 \text{ cm}^2$



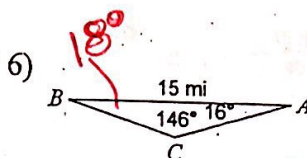
$A = 26.36$



$A = 25.19$



$A = 3.42$



$A = 17.14$

7) In $\triangle RST$, $m\angle S = 75^\circ$, $m\angle R = 31^\circ$, $t = 6.7 \text{ m}$

$A = 11.56$

8) In $\triangle ZXY$, $m\angle Z = 132^\circ$, $m\angle X = 30^\circ$, $z = 6 \text{ in}$

$A = 3.74$

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9-21 odd, 25-27

9) $c \approx 2.57$
 $\alpha \approx 48.6^\circ$
 $\beta \approx 91.4^\circ$

11.) $a \approx 2.99$
 $\beta \approx 19.2^\circ$
 $\gamma \approx 80.8^\circ$

13.) $b \approx 4.14$
 $\alpha \approx 43.0^\circ$
 $\gamma \approx 27.0^\circ$

15.) $c \approx 1.69$
 $\alpha \approx 65.0^\circ$
 $\beta \approx 65.0^\circ$

17.) $\alpha \approx 67.4^\circ$
 $\beta \approx 90^\circ$
 $\gamma \approx 22.6^\circ$

19.) $\alpha = 60^\circ$
 $\beta = 60^\circ$
 $\gamma = 60^\circ$

21.) $\alpha \approx 33.6^\circ$
 $\beta \approx 62.2^\circ$
 $\gamma \approx 84.3^\circ$

25.) 70.75 ft

26.) a) 227.56 mi b) 149.67° turn

27.) a) 12.0° b) 220.8 mph