Trigonometry of the Right Triangle - Homework Round answers to the nearest tenth.

1. Evaluate the $\sin , \cos$, and $\tan$ of $\theta($ theta).
2. Evaluate the $\sin , \cos$, and $\tan$ of $\alpha(a l p h a)$.

3. Find x . Evaluate sin, cos, and tangent of $\beta$ (beta) and $\gamma$ (gamma). Round answers to the nearest hundredth.
4. Find $x$. Evaluate tangent of $17^{\circ}$.

5. A right triangle has an acute angle of $\alpha$, and $\sin \alpha=\frac{9}{41}$. What is $\tan \alpha$ ?
6. A right triangle has a hypotenuse of 9 and an angle of $60^{\circ}$, find the larger leg.
7. A right triangle has an angle of $20^{\circ}$ and a longer leg of 5 , find the hypotenuse.
8. Solve right triangle $A B C$ using the measurements provided and the diagram shown.
a. $B=40^{\circ}, a=19$
b. $A=50^{\circ}, a=3.1$
c. $A=28^{\circ}, \mathrm{c}=11$
d. $B=35^{\circ}, b=24$

9. Evaluate all six trig functions of the angle, $\beta$. Give answers as exact values in simplified form.

10. Let $\theta$ be an acute angle in a right triangle. Find the values of the other 5 trig functions.

Give answers as exact values in simplified form.
a. $\quad \sin \theta=\frac{3}{8}$
b. $\csc \theta=\frac{3 \sqrt{2}}{4}$
c. $\tan \theta=\frac{10}{3}$

