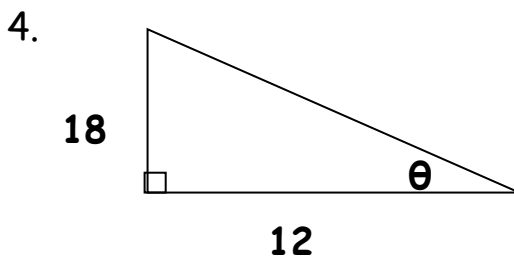
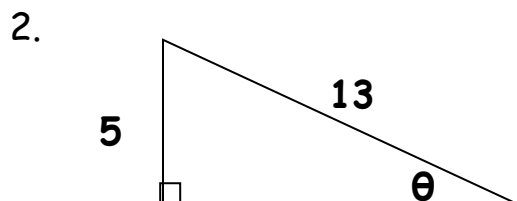
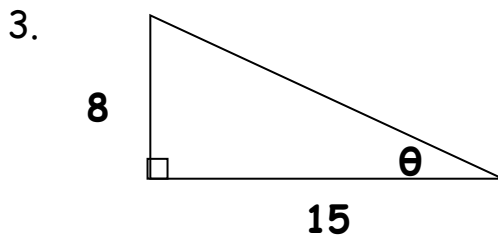
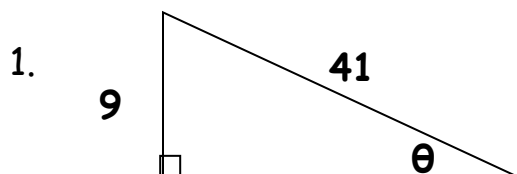


4.3 Homework Right Triangle Trigonometry

Work problems on a separate sheet of paper.

Find the exact values of the six trigonometric functions of the angle θ shown in the figure.



Sketch the right triangle corresponding to the trigonometric function of the acute angle θ . Use the Pythagorean Theorem to determine the third side of the triangle and then find the other five trigonometric function of θ .

5. $\sin \theta = \frac{5}{6}$

9. $\cot \theta = 5$

6. $\sec \theta = 4$

10. $\cos \theta = \frac{3}{7}$

7. $\tan \theta = 3$

11. $\csc \theta = \frac{17}{4}$

8. $\cot \theta = \frac{3}{2}$

12. $\sin \theta = \frac{3}{8}$

