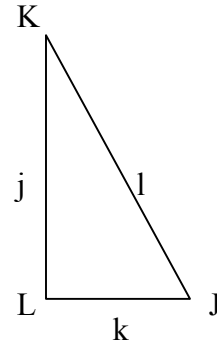
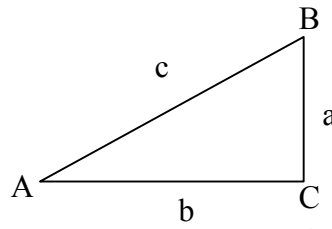


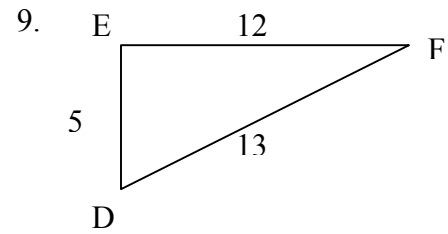
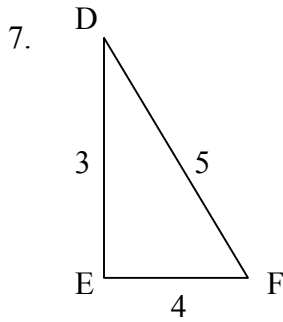
WORKSHEET #2 - Trig Ratios

Use the triangles at the right to find the trigonometric ratio.

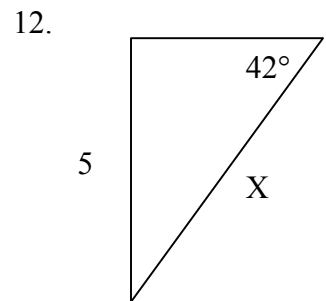
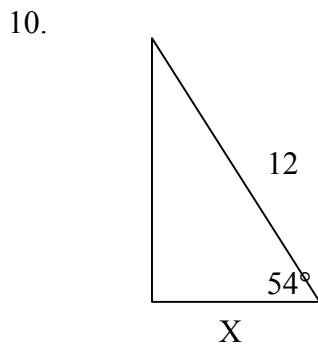
1. $\sin A$
2. $\cos A$
3. $\tan B$
4. $\sin J$
5. $\cos K$
6. $\tan K$



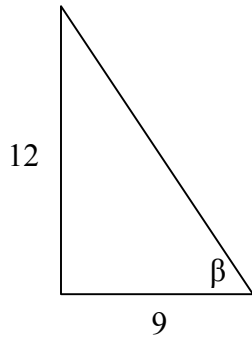
Find the sine, the cosine, and the tangent of the acute angles of the triangle. Express each value as a decimal rounded to four places.



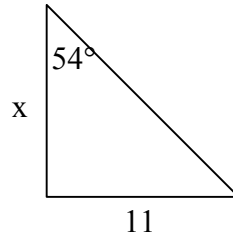
Find the value of each variable. Round decimals to the nearest tenth.



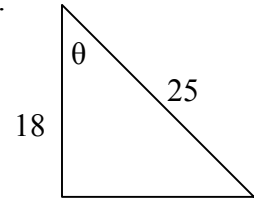
13.



14.



15.



16. A 45-foot ladder makes an angle of measure 55 degrees with the ground. How high up the wall does the ladder reach?

17. What are the measures of the acute angles of a right triangle with legs of 6 and 12?

18. What is the measure of the smaller acute angle of a right triangle with sides of 6, 8, and 10?

19. If the sine of an angle is $\frac{4}{7}$, what is the cosine of its complement?

20. Find the sine of the smaller acute angle of a right triangle with side lengths of 6, 8, and 10.

21. Find, to the nearest unit, the length of the longer leg of a right triangle if the length of the hypotenuse is 8, and the measure of an acute angle is 22° .