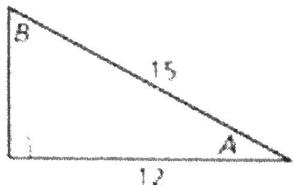


Find the cosine and sine of the acute angles in the triangles shown.

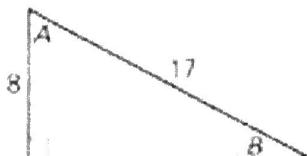
1.



$$\sin A = \frac{3}{5}; \sin B = \frac{4}{5}$$

$$\cos A = \frac{4}{5}; \cos B = \frac{3}{5}$$

2.



$$\sin A = \frac{15}{17}; \sin B = \frac{8}{17}$$

$$\cos A = \frac{8}{17}; \cos B = \frac{15}{17}$$

Write each trigonometric function in terms of its cofunction.

3. $\sin 64^\circ \cos 26^\circ$

4. $\cos 84^\circ \sin 6^\circ$

5. $\cos 38^\circ \sin 52^\circ$

6. $\sin 24^\circ \cos 66^\circ$

7. $\cos 72^\circ \sin 18^\circ$

8. $\sin 45^\circ \cos 45^\circ$

Find two angles that satisfy each equation.

9. $\sin(4x + 30)^\circ = \cos(-2x + 54)^\circ$ $42^\circ \& 48^\circ$

10. $\sin(-2x + 92)^\circ = \cos(x + 8)^\circ$ $72^\circ \& 18^\circ$

11. $\cos(5x + 49)^\circ = \sin(3x + 57)^\circ$ $39^\circ \& 51^\circ$

12. $\cos(-3x + 106)^\circ = \sin(7x - 64)^\circ$ $70^\circ \& 20^\circ$

13. $\sin(2x + 30)^\circ = \cos(3x + 5)^\circ$ $52^\circ \& 38^\circ$

14. $\sin(5x - 12)^\circ = \cos(x + 54)^\circ$ $28^\circ \& 62^\circ$

15. $\cos(3x - 10)^\circ = \sin(3x - 20)^\circ$ $50^\circ \& 40^\circ$

16. $\cos(7x - 68)^\circ = \sin(-3x + 110)^\circ$ $16^\circ \& 74^\circ$