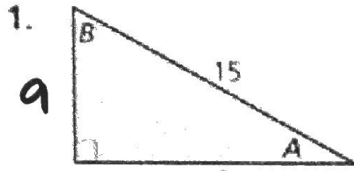
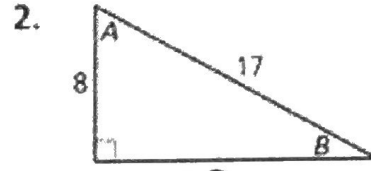


Find the cosine and sine of the acute angles in the triangles shown.



$$\sin A = \frac{9}{15} = \boxed{\frac{3}{5}} \quad \cos A = \frac{12}{15} = \boxed{\frac{4}{5}}$$

$$\sin B = \frac{12}{15} = \boxed{\frac{4}{5}} \quad \cos B = \frac{9}{15} = \boxed{\frac{3}{5}}$$



$$\sin A = \frac{8}{17} \quad \cos A = \frac{15}{17}$$

$$\cos B = \frac{15}{17} \quad \sin B = \frac{8}{17}$$

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

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

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

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

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

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

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

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

9) 42° & 48°

10) 12° & 18°

11) 39° & 51°

12) 70° & 20°

13) 52° & 38°

14) 28° & 62°

15) 50° & 40°

16) 16° & 74°