

Chapter 2

Acute Angles and Right Triangles

Section 2.1 Trigonometric Functions of Acute Angles

$$1. \quad \sin A = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{21}{29}$$

$$\cos A = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{20}{29}$$

$$\tan A = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{21}{20}$$

$$2. \quad \sin A = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{45}{53}$$

$$\cos A = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{28}{53}$$

$$\tan A = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{45}{28}$$

$$3. \quad \sin A = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{n}{p}$$

$$\cos A = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{m}{p}$$

$$\tan A = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{n}{m}$$

$$4. \quad \sin A = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{k}{z}$$

$$\cos A = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{y}{z}$$

$$\tan A = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{k}{y}$$

For Exercises 5–10, refer to the Function Values of Special Angles chart on page 54 of the text.

$$5. \quad C; \sin 30^\circ = \frac{1}{2}$$

$$6. \quad H; \cos 45^\circ = \frac{\sqrt{2}}{2}$$

$$7. \quad B; \tan 45^\circ = 1$$

$$8. \quad G; \sec 60^\circ = \frac{1}{\cos 60^\circ} = \frac{1}{\frac{1}{2}} = 2$$

$$9. \quad E; \csc 60^\circ = \frac{1}{\sin 60^\circ} = \frac{1}{\frac{\sqrt{3}}{2}} = \frac{2}{\sqrt{3}} \\ = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$

$$10. \quad A; \cot 30^\circ = \frac{\cos 30^\circ}{\sin 30^\circ} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \frac{\sqrt{3}}{2} \cdot \frac{2}{1} = \sqrt{3}$$

$$11. \quad a = 5, b = 12$$

$$c^2 = a^2 + b^2 \Rightarrow c^2 = 5^2 + 12^2 \Rightarrow c^2 = 169 \Rightarrow c = 13$$

$$\sin B = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{b}{c} = \frac{12}{13}$$

$$\cos B = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{a}{c} = \frac{5}{13}$$

$$\tan B = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{b}{a} = \frac{12}{5}$$

$$\cot B = \frac{\text{side adjacent}}{\text{side opposite}} = \frac{a}{b} = \frac{5}{12}$$

$$\sec B = \frac{\text{hypotenuse}}{\text{side adjacent}} = \frac{c}{a} = \frac{13}{5}$$

$$\csc B = \frac{\text{hypotenuse}}{\text{side opposite}} = \frac{c}{b} = \frac{13}{12}$$

$$12. \quad a = 3, b = 4$$

$$c^2 = a^2 + b^2 \Rightarrow c^2 = 3^2 + 4^2 \Rightarrow c^2 = 25 \Rightarrow c = 5$$

$$\sin B = \frac{\text{side opposite}}{\text{hypotenuse}} = \frac{b}{c} = \frac{4}{5}$$

$$\cos B = \frac{\text{side adjacent}}{\text{hypotenuse}} = \frac{a}{c} = \frac{3}{5}$$

$$\tan B = \frac{\text{side opposite}}{\text{side adjacent}} = \frac{b}{a} = \frac{4}{3}$$

$$\cot B = \frac{\text{side adjacent}}{\text{side opposite}} = \frac{a}{b} = \frac{3}{4}$$

$$\sec B = \frac{\text{hypotenuse}}{\text{side adjacent}} = \frac{c}{a} = \frac{5}{3}$$

$$\csc B = \frac{\text{hypotenuse}}{\text{side opposite}} = \frac{c}{b} = \frac{5}{4}$$

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