

G11. Warming Up Activity 6**Multiple Choice***Identify the choice that best completes the statement or answers the question.*

- ____ 1. Find the exact value of $\sin 45^\circ + \cos 30^\circ$.

a. $\frac{\sqrt{3}+1}{2}$

c. $\frac{2\sqrt{2}}{2}$

b. $\frac{1}{2}$

d. $\frac{\sqrt{3}+\sqrt{2}}{2}$

- ____ 2. Given that $\cos \theta = \frac{1}{7}$ and θ is acute, find the exact value of $\tan \theta$.

a. $\frac{1}{4\sqrt{3}}$

c. $4\sqrt{3}$

b. 7

d. $\frac{4\sqrt{3}}{7}$

- ____ 3. Given that $\cos \theta = \frac{2}{5}$ and $270^\circ \leq \theta \leq 360^\circ$, find the value of $\tan \theta$.

a. $\frac{\sqrt{21}}{2}$

c. $\frac{\sqrt{21}}{5}$

b. $-\frac{\sqrt{21}}{2}$

d. $-\frac{\sqrt{21}}{5}$

- ____ 4. $\cos 150^\circ = \dots$

a. $\cos 30^\circ$

c. $\sin 60^\circ$

b. $-\cos 30^\circ$

d. $-\cos 60^\circ$

- ____ 5. $f(x) = 5 \sin 2x - 2$ is defined for $0^\circ \leq x \leq 360^\circ$. Find the value of the amplitude.

a. 2

c. 5

b. 3

d. 7

- ____ 6. $f(x) = 5 \sin 2x - 2$ is defined for $0^\circ \leq x \leq 360^\circ$. Find the value of the period.

a. 90°

c. 270°

b. 180°

d. 360°