

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°