

Formulas Double Angles and Half Angles – in book: Section 12.6 p. 771

If $\sin A = \frac{12}{13}$ and A is in the first quadrant, find each value.

1. $\cos 2A$

2. $\sin 2A$

3. $\sin \frac{A}{2}$

4. $\cos \frac{A}{2}$

If $\sin A = \frac{7}{25}$ and A is in the first quadrant, find each value.

1. $\cos 2A$

2. $\sin 2A$

3. $\sin \frac{A}{2}$

4. $\cos \frac{A}{2}$

Use a half-angle identity and your unit circle to find each value.

7. $\sin \frac{\pi}{8}$

8. $\cos \frac{5\pi}{8}$

9. $\sin \frac{19\pi}{12}$

10. $\cos 67\frac{1}{2}^\circ$