

Trigonometric Identities - Worksheet

NAME:

DATE:

1. Find the exact value of $\tan\left(\frac{11\pi}{12}\right)$.
2. Rewrite the expression $\sin\left(x + \frac{3\pi}{2}\right)$ in terms of $\sin x$ and $\cos x$.
3. Find $\sin 2x$, $\cos 2x$ and $\tan 2x$ when $\cos x = -\frac{1}{3}$ and $\frac{\pi}{2} < x < \pi$.
4. Use half angle identities to evaluate $\cos \frac{3\pi}{8}$ exactly.