Name _____ Date _____

Year Group _____

Express as a trigonometric function of one angle

1. $\cos(70°) * \cos(40°) - \sin(70°) * \sin(40°)$

   Answer = ____ ____°

2. $\sin(60°) * \cos(20°) - \sin(60°) * \cos(20°)$

   Answer = ____ ____°

3. $\dfrac{\tan(18°) - \tan(12°)}{1 + \tan(18°) * \tan(12°)}$

   Answer = ____ ____°

Find the exact value using the sum and subtraction formulas
There are 2 answers – Use the pairing with the biggest difference
Write the bigger angle first

4. $\cos 195°$

Steps => $\cos(\_\_\_\_°) * \cos(\_\_\_\_°) - \sin(\_\_\_\_°) * \sin(\_\_\_\_°)$

Steps => $\dfrac{-\sqrt{\_\_\_\_}}{\_\_\_\_} * \dfrac{\sqrt{\_\_\_\_}}{\_\_\_\_} - \dfrac{\_\_\_\_}{\_\_\_\_} * \dfrac{\sqrt{\_\_\_\_}}{\_\_\_\_}$

Steps => $\dfrac{-\sqrt{\_\_\_\_}}{\_\_\_\_} - \dfrac{\sqrt{\_\_\_\_}}{\_\_\_\_}$

Answer => $\dfrac{-\sqrt{\_\_\_\_} - \sqrt{\_\_\_\_}}{\_\_\_\_}$ or $-\dfrac{\sqrt{\_\_\_\_} + \sqrt{\_\_\_\_}}{\_\_\_\_}$