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

   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 => $$\frac{-\sqrt{\_\_\_}}{\_\_\_} * \frac{\sqrt{\_\_\_}}{\_\_\_} - \frac{\_\_\_}{\_\_\_} * \frac{\sqrt{\_\_\_}}{\_\_\_}$$

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

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