1

Complete the sum/difference identity for this expression

$$\tan(210° + 45°)$$

A $$= \frac{\tan(210°) + \tan(45°)}{1 - \tan(210°)\tan(45°)}$$

B $$= \frac{\cos(210°) + \sin(45°)}{1 - \tan(210°)\tan(45°)}$$

2

Complete the sum/difference identity for this expression

$$\cos(210° - 225°)$$

A $$= \sin(210°)\cos(225°) + \cos^2(210°)$$

B $$= \cos(210°)\cos(225°) + \sin(210°)\sin(225°)$$

3

Complete the sum/difference identity for this expression

$$\cos(330° - 150°)$$

A $$= \cos(330°)\cos(150°) + \sin(330°)\sin(150°)$$

B $$= \sin(330°)\cos(150°) - \cos(330°)\sin(150°)$$

4

Complete the sum/difference identity for this expression

$$\tan(135° + 30°)$$

A $$= \frac{\cos(135°) + \sin(30°)}{1 - \tan(135°)\tan(30°)}$$

B $$= \frac{\tan(135°) + \tan(30°)}{1 - \tan(135°)\tan(30°)}$$

5

Complete the sum/difference identity for this expression

$$\tan(60° - 150°)$$

A $$= \sin(60°)\cos(150°) - \cos(60°)\sin(150°)$$

B $$= \frac{\tan(60°) - \tan(150°)}{1 + \tan(60°)\tan(150°)}$$

6

Complete the sum/difference identity for this expression

$$\tan(315° + 135°)$$

A $$= \frac{\tan(315°) + \tan(135°)}{1 - \tan(315°)\tan(135°)}$$

B $$= \frac{\tan(315°) + \tan(135°)}{\tan^2(315°)\tan^2(135°)}$$

7

Complete the sum/difference identity for this expression

$$\cos(30° + 135°)$$

A $$= \sin(30°)\sin(135°) - \cos(30°)\cos(135°)$$

B $$= \cos(30°)\cos(135°) - \sin(30°)\sin(135°)$$

8

Complete the sum/difference identity for this expression

$$\tan(330° - 225°)$$

A $$= \frac{\cos(330°) + \sin(225°)}{1 - \tan(330°)\tan(225°)}$$

B $$= \frac{\tan(330°) - \tan(225°)}{1 + \tan(330°)\tan(225°)}$$