Name

# Trigonometry Identities - Sum/Difference Identity True/False (Greek Letter)

**1** Is this sum/difference identity correct?

$$\tan(\alpha-\beta)=\sin(\alpha)\cos(\beta)-\cos(\alpha)\sin(\beta)$$

| A | B |
|---|---|
| Yes | No |

**2** Is this sum/difference identity correct?

$$\cos(\theta-\beta)=\sin(\theta)\cos(\beta)-\cos(\theta)\sin(\beta)$$

| A | B |
|---|---|
| Yes | No |

**3** Is this sum/difference identity correct?

$$\sin(\theta+\gamma)=\sin(\theta)\cos(\gamma)+\cos(\theta)\sin(\gamma)$$

| A | B |
|---|---|
| Yes | No |

**4** Is this sum/difference identity correct?

$$\cos(\alpha+\gamma)=\cos(\alpha)\cos(\gamma)-\sin(\alpha)\sin(\gamma)$$

| A | B |
|---|---|
| Yes | No |

**5** Is this sum/difference identity correct?

$$\sin(\beta+\alpha)=\sin(\beta)\cos(\alpha)-\cos(\beta)\sin(\alpha)$$

| A | B |
|---|---|
| Yes | No |

**6** Is this sum/difference identity correct?

$$\sin(\gamma-\theta)=\sin(\gamma)\cos(\theta)+\cos(\gamma)\sin(\theta)$$

| A | B |
|---|---|
| Yes | No |

**7** Is this sum/difference identity correct?

$$\cos(\gamma-\beta)=\sin(\gamma)\cos(\beta)-\cos(\gamma)\sin(\beta)$$

| A | B |
|---|---|
| Yes | No |

**8** Is this sum/difference identity correct?

$$\tan(\theta+\alpha)=\frac{\tan(\theta)+\tan(\alpha)}{1-\tan(\theta)\tan(\alpha)}$$

| A | B |
|---|---|
| Yes | No |