

## **6.1) Secant, cosecant and cotangent**

## Worked example

Find the exact values of:

$$\cosec \frac{\pi}{2}$$

$$\cosec \frac{\pi}{3}$$

$$\cosec \frac{\pi}{4}$$

$$\cosec 150^\circ$$

$$\cosec (-210^\circ)$$

$$\cosec (0)$$

## Your turn

Find the exact values of:

$$\cosec \frac{\pi}{6}$$

2

$$\cosec(-150^\circ)$$

-2

## Worked example

Find the exact values of:

$$\sec \frac{\pi}{2}$$

$$\sec \frac{\pi}{3}$$

$$\sec \frac{\pi}{4}$$

$$\sec 150^\circ$$

$$\sec (-210^\circ)$$

$$\sec (0)$$

## Your turn

Find the exact values of:

$$\sec \frac{\pi}{6}$$

$$\frac{2\sqrt{3}}{3}$$

$$\sec(-150^\circ)$$

$$-\frac{2\sqrt{3}}{3}$$

## Worked example

## Your turn

Find the exact values of:

$$\cot \frac{\pi}{2}$$

$$\cot \frac{\pi}{3}$$

$$\cot \frac{\pi}{4}$$

$$\cot 150^\circ$$

$$\cot (-210^\circ)$$

$$\cot (0)$$

Find the exact values of:

$$\cot \frac{\pi}{6}$$

$$\sqrt{3}$$

$$\cot(-150^\circ)$$

$$\sqrt{3}$$