

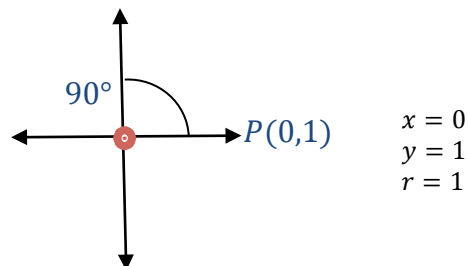
# Valores Exactos de las Funciones Trigonométricas en los Límites de los Cuadrantes

1) Valores exactos de las funciones trigonométricas en un  $\angle$  de  $90^\circ$ .

$$\text{Sen } 90^\circ = \frac{1}{1} = 1 \quad \text{Cot } 90^\circ = \frac{0}{1} = 0$$

$$\text{Cos } 90^\circ = \frac{0}{1} = 0 \quad \text{Sec } 90^\circ = \frac{1}{0} = \text{ind}$$

$$\text{Tan } 90^\circ = \frac{1}{0} = \text{ind} \quad \text{Csc } 90^\circ = \frac{1}{1} = 1$$

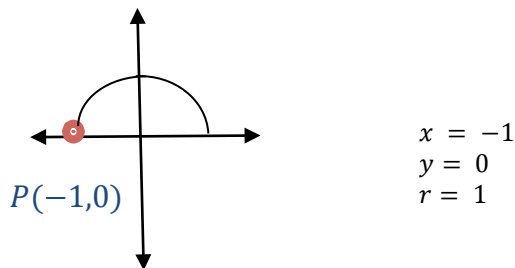


2) Valores exactos de las funciones trigonométricas en un  $\angle$  de  $180^\circ$ .

$$\text{Sen } 180^\circ = \frac{0}{1} = 0 \quad \text{Cot } 180^\circ = \frac{-1}{0} = \text{ind}$$

$$\text{Cos } 180^\circ = \frac{-1}{1} = -1 \quad \text{Sec } 180^\circ = \frac{1}{-1} = -1 \quad 180^\circ$$

$$\text{Tan } 180^\circ = \frac{0}{-1} = 0 \quad \text{Csc } 180^\circ = \frac{1}{0} = \text{ind}$$

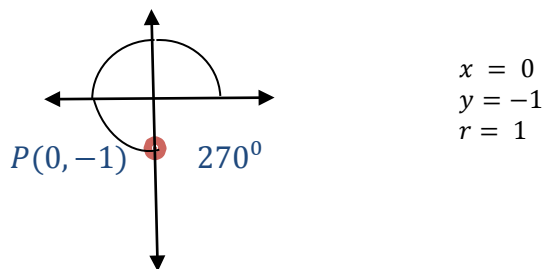


3) Valores exactos de las funciones trigonométricas en un  $\angle$  de  $270^\circ$ .

$$\text{Sen } 270^\circ = \frac{-1}{1} = -1 \quad \text{Cot } 270^\circ = \frac{0}{-1} = 0$$

$$\text{Cos } 270^\circ = \frac{0}{1} = 0 \quad \text{Sec } 270^\circ = \frac{1}{0} = \text{ind}$$

$$\text{Tan } 270^\circ = \frac{-1}{0} = \text{ind} \quad \text{Csc } 270^\circ = \frac{1}{-1} = -1$$



4) Valores exactos de las funciones trigonométricas en un  $\angle$  de  $360^\circ$  y  $0^\circ$ .

$$\text{Sen } 360^\circ = \frac{0}{1} = 0 \quad \text{Cot } 360^\circ = \frac{1}{0} = \text{ind}$$

$$\text{Cos } 360^\circ = \frac{1}{1} = 1 \quad \text{Sec } 360^\circ = \frac{1}{1} = 1$$

$$\text{Tan } 360^\circ = \frac{0}{1} = 0 \quad \text{Csc } 360^\circ = \frac{1}{0} = \text{ind}$$

