

# Trig Ratios Foldable

Q2 Students	Q1 All
Q3 Take	Q4 Calculus

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### Instructions

Print or copy page 3 and 4 double sided.

Place the paper so the examples are face down.

Cut along the dotted lines to create flaps.

Flip and fold the flaps inwards.

Glue the foldable into notes or on a piece of construction paper.

Go through the foldable with your students.

## Quadrant 1

All trig ratios are  
positive

## Quadrant 2

Only sine and  
cosecant are  
positive

## Quadrant 4

Only cosine and  
secant are  
positive

## Quadrant 3

Only tangent and  
cotangent are  
positive

# Preview

### Quadrant 2

$\sin\theta =$

$\cos\theta =$

$\tan\theta =$

$\csc\theta =$

$\sec\theta =$

$\cot\theta =$

### Quadrant 1

$\sin\theta =$

$\cos\theta =$

$\tan\theta =$

$\csc\theta =$

$\sec\theta =$

$\cot\theta =$

### Quadrant 3

$\sin\theta =$

$\cos\theta =$

$\tan\theta =$

$\csc\theta =$

$\sec\theta =$

$\cot\theta =$

### Quadrant 4

$\sin\theta =$

$\cos\theta =$

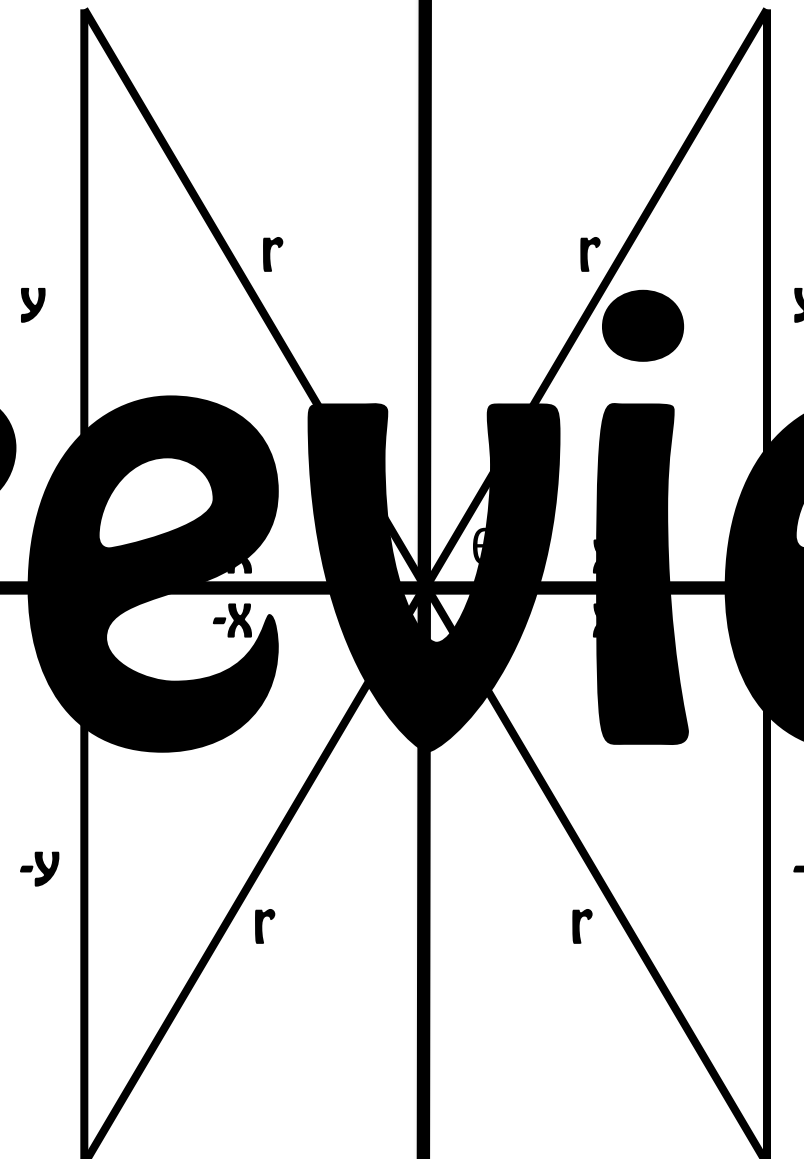
$\tan\theta =$

$\csc\theta =$

$\sec\theta =$

$\cot\theta =$

**Preview**



### Quadrant 2

$$\sin\theta = y/r = \text{POS}$$

$$\cos\theta = -x/r = \text{NEG}$$

$$\tan\theta = y/-x = \text{NEG}$$

$$\csc\theta = r/y = \text{POS}$$

$$\sec\theta = r/-x = \text{NEG}$$

$$\cot\theta = -x/y = \text{POS}$$

### Quadrant 1

$$\sin\theta = y/r = \text{POS}$$

$$\cos\theta = x/r = \text{POS}$$

$$\tan\theta = y/x = \text{POS}$$

$$\csc\theta = r/y = \text{POS}$$

$$\sec\theta = r/x = \text{POS}$$

$$\cot\theta = x/y = \text{POS}$$

### Quadrant 3

$$\sin\theta = -y/r = \text{NEG}$$

$$\cos\theta = -x/r = \text{NEG}$$

$$\tan\theta = -y/-x = \text{POS}$$

$$\csc\theta = r/-y = \text{NEG}$$

$$\sec\theta = r/-x = \text{NEG}$$

$$\cot\theta = -x/-y = \text{POS}$$

### Quadrant 4

$$\sin\theta = -y/r = \text{NEG}$$

$$\cos\theta = x/r = \text{POS}$$

$$\tan\theta = -y/x = \text{NEG}$$

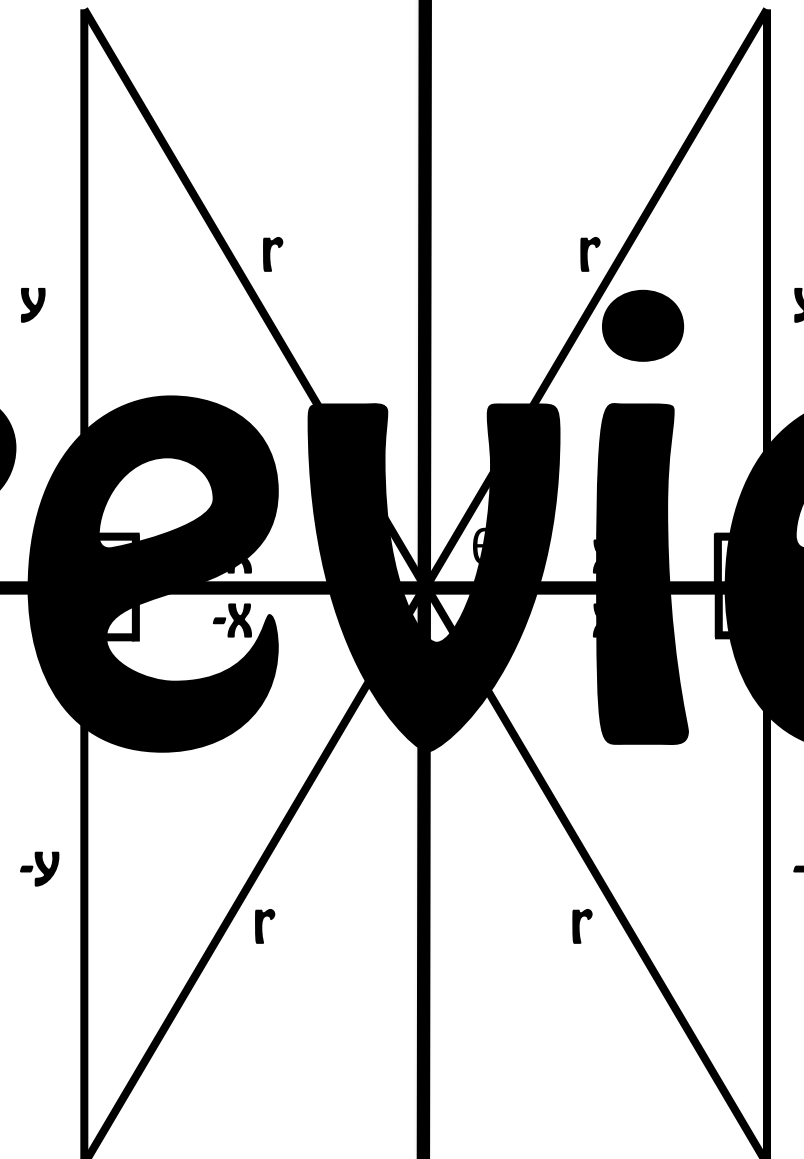
$$\csc\theta = r/-y = \text{NEG}$$

$$\sec\theta = r/x = \text{POS}$$

$$\cot\theta = x/-y = \text{NEG}$$

Students

All



Take

Calculus

# review