

# CLOTHESPIN MATCHING ACTIVITY

# PARENT GRAPHS OF TRIG FUNCTIONS

# Cards to Attach to Clothespins

<b>sin</b>	<b>cos</b>	<b>tan</b>
<b>csc</b>	<b>sec</b>	<b>cot</b>

<b>sin</b>	<b>cos</b>	<b>tan</b>
<b>csc</b>	<b>sec</b>	<b>cot</b>

<b>sin</b>	<b>cos</b>	<b>tan</b>
<b>csc</b>	<b>sec</b>	<b>cot</b>

<b>sin</b>	<b>cos</b>	<b>tan</b>
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<b>sin</b>	<b>cos</b>	<b>tan</b>
<b>csc</b>	<b>sec</b>	<b>cot</b>

<b>sin</b>	<b>cos</b>	<b>tan</b>
<b>csc</b>	<b>sec</b>	<b>cot</b>

<b>tan</b>	<b>cot</b>
<b>cos</b>	<b>sec</b>
<b>sin</b>	<b>csc</b>

# PARENT GRAPHS OF TRIG FUNCTIONS CLOTHESPIN MATCHING ACTIVITY

Group Member Names:

## COMPLETED CHALLENGES

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

1 Which trig parent functions have the given characteristic?

**No  $y$ -intercept**



2 Which trig parent functions have the given characteristic?

**$y$ -intercept of 1**



3 Which trig parent functions have the given characteristic?

**Absolute max of 1**



4 Which trig parent functions have the given characteristic?

**Absolute min of  $-1$**



5 Which trig parent functions have the given characteristic?

**Relative max of  $-1$**



6 Which trig parent functions have the given characteristic?

**Relative min of  $1$**



7 Which trig parent functions have the given characteristic?

**Domain  $(-\infty, \infty)$**



8 Which trig parent functions have the given characteristic?

**Range  $(-\infty, \infty)$**



9 Which trig parent functions have the given characteristic?

**Range  $[-1, 1]$**



10 Which trig parent functions have the given characteristic?

**Period of  $\pi$**



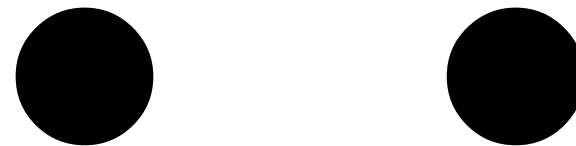
11 Which trig parent functions have the given characteristic?

**No zeros**



12 Which trig parent functions have the given characteristic?

**Continuous Wave  
Shape**



13 Which trig parent functions have the given characteristic?

**Range**  
 $(-\infty, -1] \cup [1, \infty)$



14 Which trig parent functions have the given characteristic?

**Zeros at  $\frac{\pi}{2} \pm \pi(k)$**



15 Which trig parent functions have the given characteristic?

**Asymptotes at  $\pm \pi(k)$**



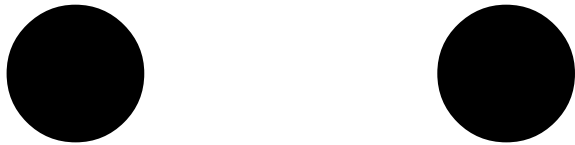
16 Which trig parent functions have the given characteristic?

**Asymptotes at  $\frac{\pi}{2} \pm \pi(k)$**



17 Which trig parent functions have the given characteristic?

**Alternating  
U-Shapes**



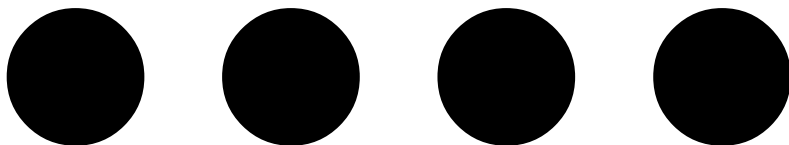
18 Which trig parent functions have the given characteristic?

**Zeros at  $\pm \pi(k)$**



19 Which trig parent functions have the given characteristic?

**No absolute  
max or min**



20 Which trig parent functions have the given characteristic?

**Period of  $2\pi$**

