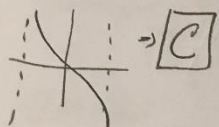
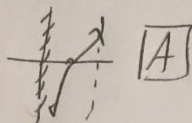


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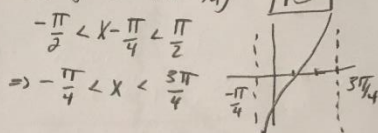
⑦ $y = \tan(x)$



⑧ $y = -\cot(x)$



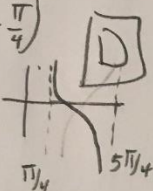
⑨ $y = \tan(x - \pi/4)$



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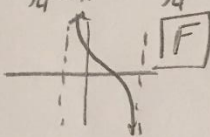
⑩ $y = \cot(x - \pi/4)$

$0 < x - \pi/4 < \pi$
 $\Rightarrow \pi/4 < x < 5\pi/4$



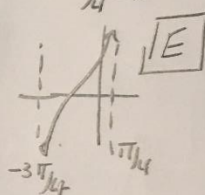
⑪ $y = \cot(x + \pi/4)$

$0 < x + \pi/4 < \pi$
 $\Rightarrow -\pi/4 < x < 3\pi/4$



⑫ $y = \tan(x + \pi/4)$

$-\pi/2 < x + \pi/4 < \pi/2$
 $\Rightarrow -3\pi/4 < x < \pi/4$



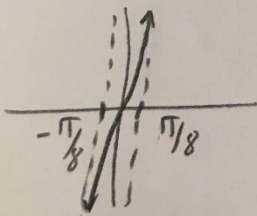
⑬ $y = \tan(4x)$

shape

interval

$-\pi/2 < 4x < \pi/2$

$\Rightarrow -\pi/8 < x < \pi/8$



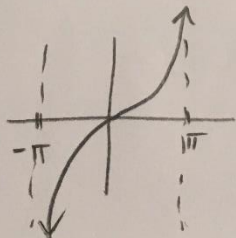
⑭ $y = \tan(\frac{1}{2}x)$

shape

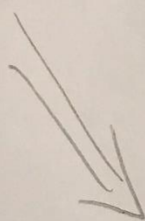
interval

$-\pi/2 < \frac{1}{2}x < \pi/2$

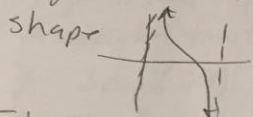
$\Rightarrow -\pi < x < \pi$



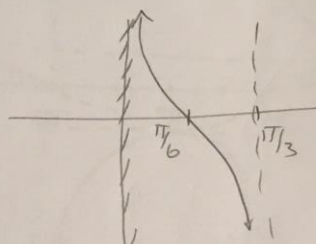
⑮



#19 $y = \cot(3x)$

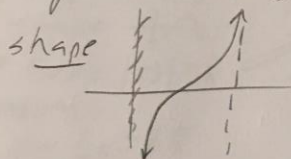


Interval
 $0 < 3x < \pi$
 $\Rightarrow 0 < x < \frac{\pi}{3}$



=

#20 $y = -\cot(\frac{1}{2}x)$



Interval
 $0 < \frac{1}{2}x < \pi$

$\Rightarrow 0 < x < 2\pi$

