Know the graphs of $y = \sin(x)$, $y = \cos(x)$ and $y = \tan(x)$

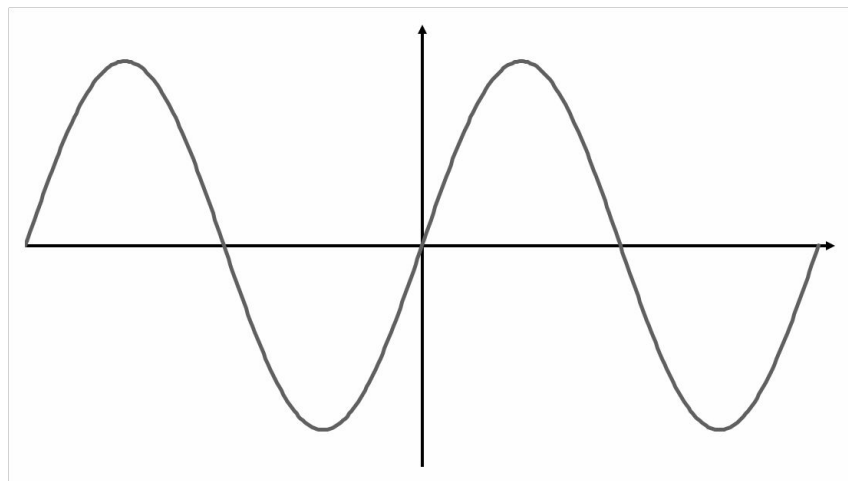Mr Bond

Know the graphs of $y = \sin(x)$, $y = \cos(x)$ and $y = \tan(x)$

1. a) Sketch the graph of $y = \sin(x)$ for $-360 \leq x \leq 360$

2. Here is the graph of $y = \sin(x)$ for $-360 \leq x \leq 360$

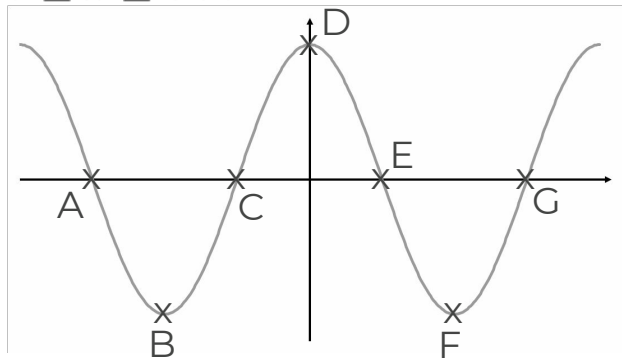b) Label the coordinates of the turning points.

Label the coordinates of the points where the graph intersects the axis.

Know the graphs of $y = \sin(x)$, $y = \cos(x)$ and $y = \tan(x)$

3. Here is the graph of $y = \cos(x)$ for

$-360 \leq x \leq 360$

Write down the coordinates of points

A – G.

4. a) Sketch the graph of $y = \tan(x)$ for

$-360 \leq x \leq 360$

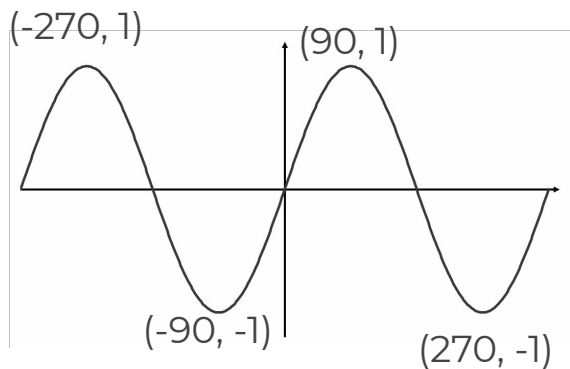b) Identify any asymptotes and write
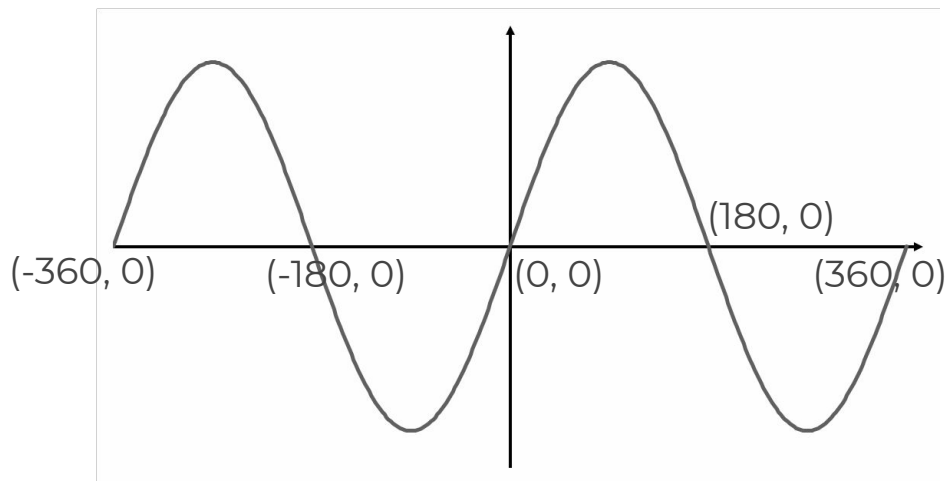
their equation.

Answers

Know the graphs of $y = \sin(x)$, $y = \cos(x)$ and $y = \tan(x)$

1. a) Sketch the graph of $y = \sin(x)$ for $-360 \leq x \leq 360$

(-270, 1) (90, 1)

(-90, -1) (270, -1)

b) Label the coordinates of the turning points.

2. Here is the graph of $y = \sin(x)$ for $-360 \leq x \leq 360$
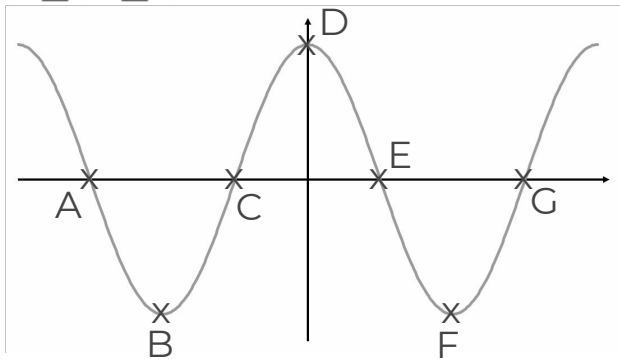
(180, 0)

(-360, 0) (-180, 0) (0, 0) (360, 0)

Label the coordinates of the points where the graph intersects the axis.

Know the graphs of $y = \sin(x)$, $y = \cos(x)$ and $y = \tan(x)$

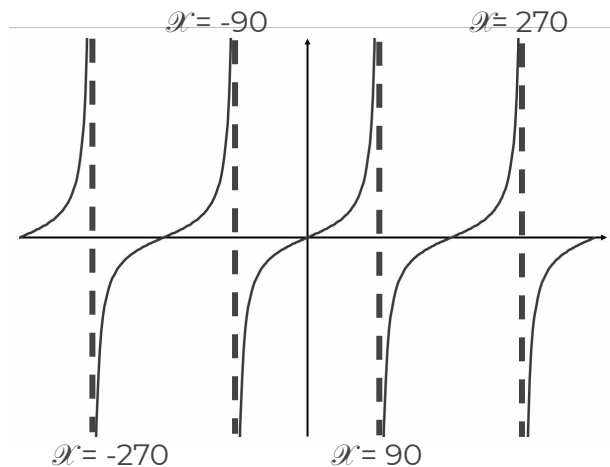3. Here is the graph of $y = \cos(x)$ for

$-360 \leq x \leq 360$

Write down the coordinates of points

A – G.　**A** (-270, 0)　**B** (-180, -1)　**C** (-90, 0)

　　　　　D (0, 1)　**E** (90, 0)　**F** (180, -1)　**G** (270, 0)

4. a) Sketch the graph of $y = \tan(x)$ for

$-360 \leq x \leq 360$

b) Identify any asymptotes and write

their equation.