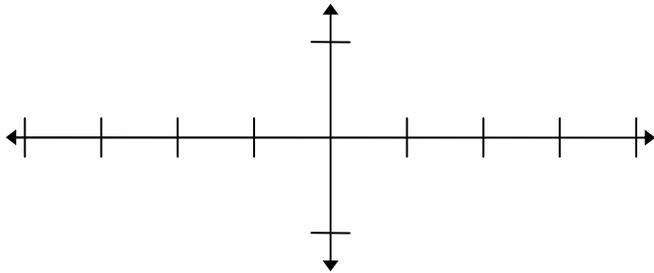


Inverse Trigonometric Function Festival!

1. a) Sketch the graph of  $y = \sin x$  below:  
(Without using a calculator!)

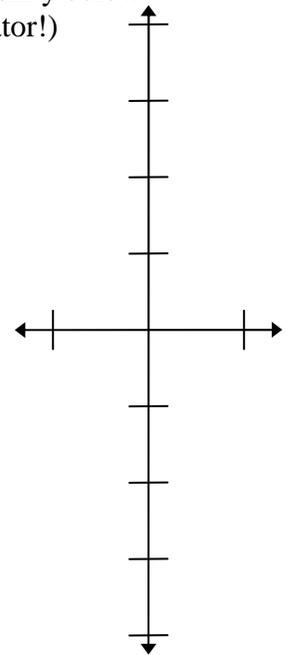


b) State the domain:

c) State the range:

d) State the period:

2. a) Sketch the graph of  $x = \sin y$  below:  
(Without using a calculator!)

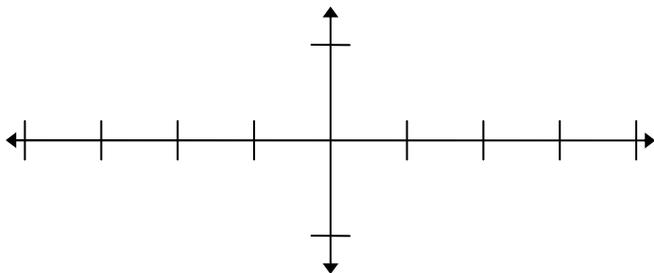


b) State the domain:

c) State the range:

d) Solve  $x = \sin y$  for  $y$ :

3. a) Sketch the graph of  $y = \cos x$  below:  
(Without using a calculator!)

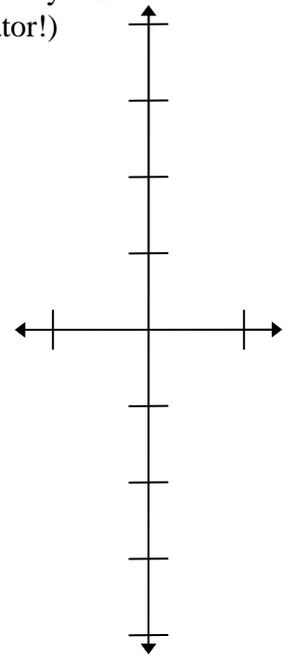


b) State the domain:

c) State the range:

d) State the period:

4. a) Sketch the graph of  $x = \cos y$  below:  
(Without using a calculator!)

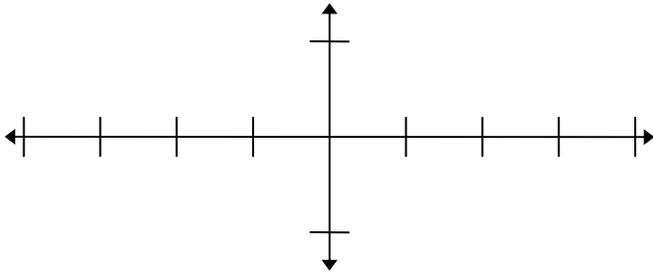


b) State the domain:

c) State the range:

d) Solve  $x = \cos y$  for  $y$ :

5. a) Sketch the graph of  $y = \tan x$  below:  
(Without using a calculator!)



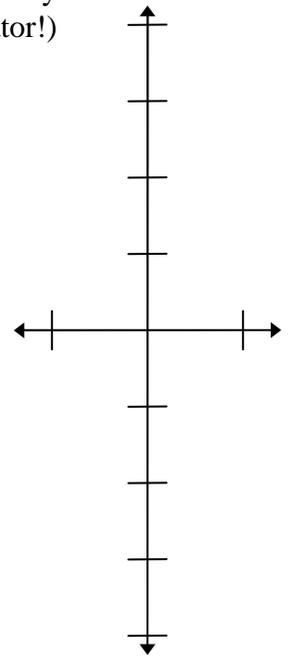
b) State the domain:

c) State the range:

d) State the period:

e) State the asymptotes:

6. a) Sketch the graph of  $x = \tan y$  below:  
(Without using a calculator!)



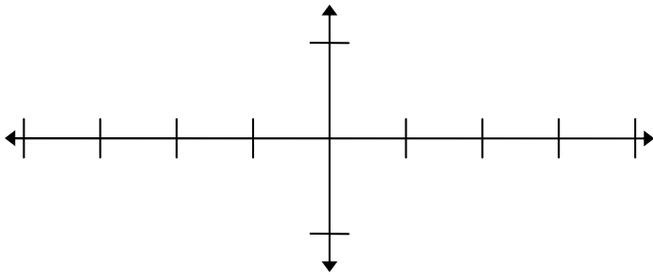
b) State the domain:

c) State the range:

d) State the asymptotes:

e) Solve  $x = \tan y$  for  $y$ :

7. a) Sketch the graph of  $y = \cot x$  below:  
(Without using a calculator!)



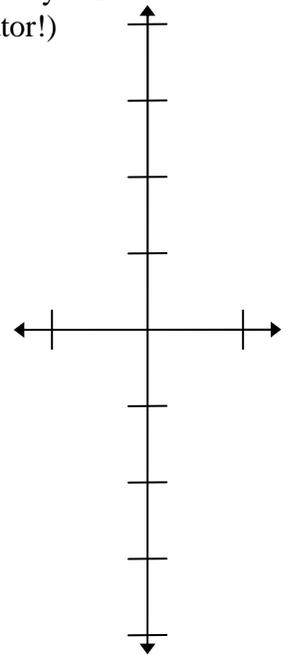
b) State the domain:

c) State the range:

d) State the period:

e) State the asymptotes:

8. a) Sketch the graph of  $x = \cot y$  below:  
(Without using a calculator!)



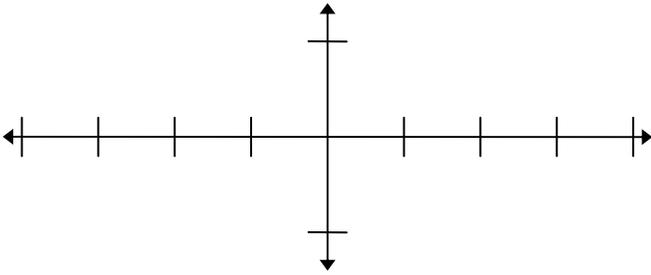
b) State the domain:

c) State the range:

d) State the asymptotes:

e) Solve  $x = \cot y$  for  $y$ :

9. a) Sketch the graph of  $y = \csc x$  below:  
(Without using a calculator!)



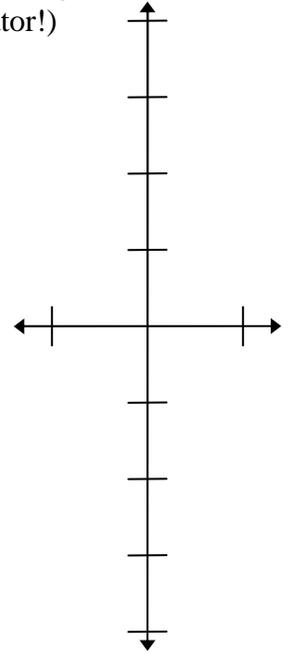
b) State the domain:

c) State the range:

d) State the period:

e) State the asymptotes:

10. a) Sketch the graph of  $x = \csc y$  below:  
(Without using a calculator!)



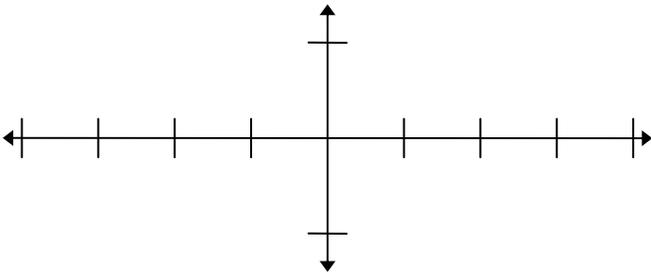
b) State the domain:

c) State the range:

d) State the asymptotes:

e) Solve  $x = \csc y$  for  $y$ :

11. a) Sketch the graph of  $y = \sec x$  below:  
(Without using a calculator!)



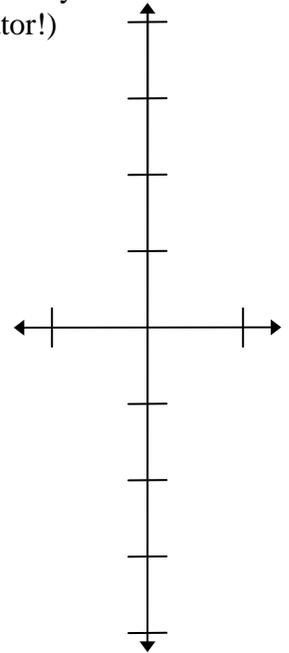
b) State the domain:

c) State the range:

d) State the period:

e) State the asymptotes:

12. a) Sketch the graph of  $x = \sec y$  below:  
(Without using a calculator!)



b) State the domain:

c) State the range:

d) State the asymptotes:

e) Solve  $x = \sec y$  for  $y$ :

