

1. a)

| x | $\frac{\sin x}{x}$ |
|---------|--------------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

b) _____

2. a)

| x | x^2 |
|--------|-------|
| 2.1 | |
| 2.01 | |
| 2.001 | |
| 2.0001 | |
| 1.9 | |
| 1.99 | |
| 1.999 | |
| 1.9999 | |

b)

| x | $\sin\left(\frac{1}{x}\right)$ |
|---------|--------------------------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

c)

| x | $(1+x)^{\frac{1}{x}}$ |
|---------|-----------------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

d)

| x | $\frac{x^3 - 1}{ x - 1 }$ |
|--------|---------------------------|
| 0.9 | |
| 0.99 | |
| 0.999 | |
| 0.9999 | |
| 1.1 | |
| 1.01 | |
| 1.001 | |
| 1.0001 | |

3. a) _____

b) _____

c) _____

4. a)

| x | $\frac{ x^2 - x }{x - 1}$ |
|---------|---------------------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

b) _____

c) _____

5. a) _____

b) _____

c) _____

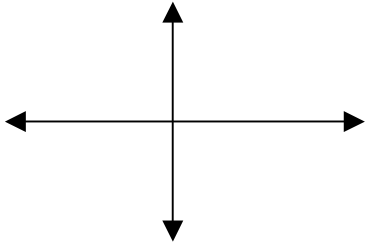
6. a)

| x | $\frac{1}{x+1}$ |
|---------|-----------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

b) _____

c) _____

7.



8. a) _____

b) _____

c) _____

9. _____

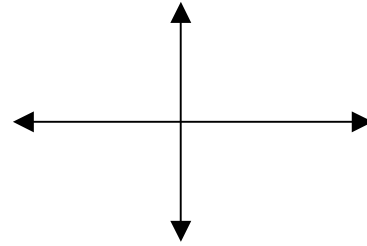
10. a)

| x | $\frac{x}{\sqrt{x^2+1}}$ |
|---------|--------------------------|
| 0.1 | |
| 0.01 | |
| 0.001 | |
| 0.0001 | |
| -0.1 | |
| -0.01 | |
| -0.001 | |
| -0.0001 | |

b) _____

c) _____

d)



11. _____

12.

| $\lim_{x \rightarrow \infty} F(x)$ | $\lim_{x \rightarrow -\infty} F(x)$ | Horizontal Asymptotes |
|------------------------------------|-------------------------------------|-----------------------|
| | | |
| | | |
| | | |
| | | |

13. a) _____

b) _____