Precalculus

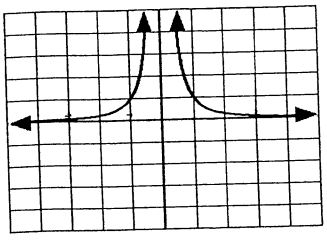
Name: KEY

End Behavior all

*"DNE" means does not exist

State the left and right end behavior of the graphs below using limit notation:

1.

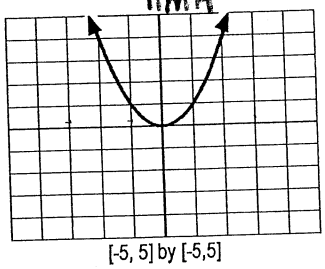


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = 0$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = 0$ (limit notation)

2.

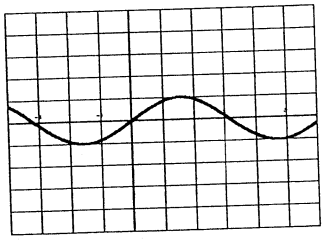


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = \infty$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = \infty$ (limit notation)

3.

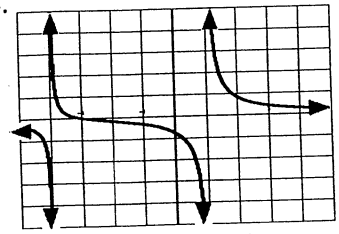


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = DNE$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = DNE$ (limit notation)

4.

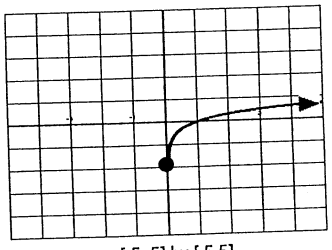


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = 0$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = 0$ (limit notation)

5.

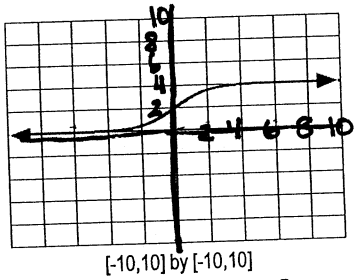


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = DNE$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = \infty$ (limit notation)

6.

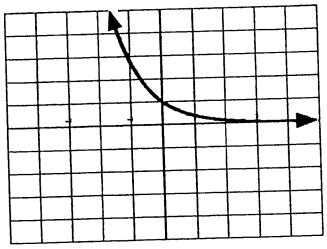


[-10,10] by [-10,10]

LEB: $\lim_{x\to-\infty} f(x) = 0$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = 4$ (limit notation)

7.

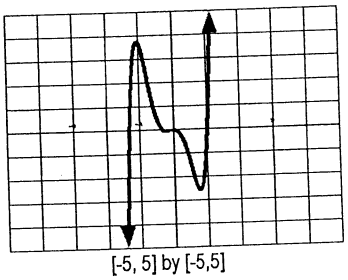


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = \infty$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = 0$ (limit notation)

8.

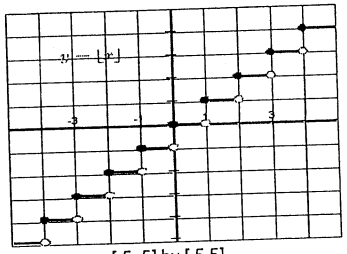


[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = -\infty$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = \infty$ (limit notation)

9.



[-5, 5] by [-5,5]

LEB: $\lim_{x\to-\infty} f(x) = -\infty$ (limit notation)

REB: $\lim_{x\to\infty} f(x) = \infty$ (limit notation)