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## Pre-Calculus!

| R | F | M | X | H | A | Z | Z | N | S | U | F | Q | J | D | 1 | B | P | R | B | 1 | G | A | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q | N | Q | N | C | U | K | W | 1 | U | S | T | G | Z | C | B | K | Z | P | M | X | E | V | G |
| S | J | G | J | A | 0 | L | $J$ | L | C | X | G | E | H | 1 | V | R | B | W | W | Q | S | B | A |
| B | M | R | E | G | E | M | $J$ | F | M | V | W | 1 | T | N | 0 | N | U | K | A | Z | $J$ | L | R |
| A | X | $J$ | H | C | C | R | P | D | H | $J$ | H | B | S | 1 | G | 1 | N | M | Y | S | N | N | R |
| D | E | K | C | G | A | R | U | 0 | J | N | L | 1 | V | 0 | 1 | 1 | 1 | B | U | C | Z | R | B |
| E | A | R | C | N | S | D | Y | C | S | 0 | U | A | K | F | P | 1 | T | N | C | H | T | T | 1 |
| D | B | B | G | N | W | D | G | Z | P | 1 | H | J | R | B | N | N | C | A | C | W | 0 | X | M |
| N | N | E | J | A | K | G | P | 1 | X | E | T | U | N | C | B | L | 1 | W | L | G | 0 | J | E |
| U | Y | V | V | Q | S | F | X | B | B | C | 0 | 1 | R | E | G | M | R | X | T | W | R | X | N |
| 0 | L | S | E | C | A | N | T | D | D | 0 | W | E | 0 | S | 1 | K | C | $J$ | L | J | L | D | 1 |
| B | B | E | D | M | B | N | N | V | Q | X | A | E | $N$ | N | P | 1 | L | E | E | F | A | 0 | S |
| G | Z | C | Y | Z | W | E | A | S | U | S | $J$ | C | T | N | A | C | E | S | 0 | C | N | M | 0 |
| 1 | N | V | E | R | S | E | 1 | V | 1 | M | P | Q | 0 | E | A | R | Y | 1 | V | B | 0 | A | C |
| T | Z | C | X | T | Q | N | P | N | V | T | M | 0 | Y | T | R | Q | H | P | V | R | 1 | 1 | 0 |
| T | D | 0 | Y | Z | E | D | G | W | P | S | T | B | L | T | E | 0 | N | E | E | 1 | T | N | D |
| B | I | T | L | A | 1 | T | N | E | N | 0 | P | X | E | Y | N | R | H | M | 1 | 0 | A | L | K |
| K | D | A | S | K | D | Y | F | C | N | D | U | L | E | L | N | E | M | C | H | 0 | R | N | Q |
| G | J | N | V | J | Z | Q | L | D | 1 | H | Y | H | R | 0 | B | 0 | G | 1 | Q | B | N | C | $J$ |
| $\mathrm{Q}$ | T | G | W | J | M | S | E | W | F | U | N | C | T | 1 | 0 | N | M | N | N | D | V | N | L |
| Z | J | E | S | T | T | Z | R | 1 | 0 | U | M | N | C | 0 | V | C | C | 1 | A | A | G | K | U |
| $J$ | Y | N | L | 0 | G | A | R | 1 | T | H | M | M | Z | F | B | 1 | N | E | A | T | L | V | Q |
| X | F | T | Q | K | G | W | A | S | A | S | Y | M | P | T | 0 | T | E | Y | P | L | Q | X | Y |
| N | T | G | U | N | $J$ | 1 | J | T | R | 0 | S | K | W | M | 0 | v | X | C | X | R | Z | 0 |  |

Rational Root End Behavior Composition Unit Circle

Exponential
Cotangent
Function
Secant
Sine

| End Behavior | Composition | Unit Circle |
| :--- | :--- | :--- |
| Increasing | Coterminal | Polynomial |
| Asymptote | Logarithm | Cosecant |
| Inverse | Tangent | Bounded |
| Cosine | Domain | Range |

