

$$g'(x) = ae^{-bx}(1 - bx)$$

|              |       |               |
|--------------|-------|---------------|
|              | ++    | +-            |
| sign( $g'$ ) | +     | -             |
|              | <hr/> |               |
| behav( $g$ ) | INC   | DEC           |
|              |       | $\frac{1}{b}$ |