

## Transformations

|                           |                          |                         |
|---------------------------|--------------------------|-------------------------|
| $y = 2^{x-3}$             | $y = 2^{3x}$             | $y = \sqrt{-x}$         |
| $y = 2^{\frac{x}{3}}$     | $y = \frac{3}{x^2}$      | $y = -\sqrt{x}$         |
| $y = \sqrt{x} - 3$        | $y = -\frac{1}{x^2}$     | $y = \frac{1}{(x+3)^2}$ |
| $y = 2^{-x}$              | $y = 2^x + 3$            | $y = \sqrt{3x}$         |
| $y = 2^{x+3}$             | $y = \sqrt{\frac{x}{3}}$ | $y = \sqrt{x-3}$        |
| $y = \frac{1}{3}\sqrt{x}$ | $y = 3\sqrt{x}$          | $y = \frac{1}{3x^2}$    |

|                              |                         |                         |
|------------------------------|-------------------------|-------------------------|
| $y = \frac{1}{3} \times 2^x$ | $y = -2^x$              | $y = \frac{1}{(x-3)^2}$ |
| $y = 3 \times 2^x$           | $y = \frac{1}{x^2} + 3$ | $y = \frac{9}{x^2}$     |
| $y = \frac{1}{x^2}$          | $y = \sqrt{x} + 3$      | $y = \frac{1}{x^2} - 3$ |
| $y = \frac{1}{9x^2}$         | $y = 2^x - 3$           | $y = \sqrt{x+3}$        |

# Transformation

