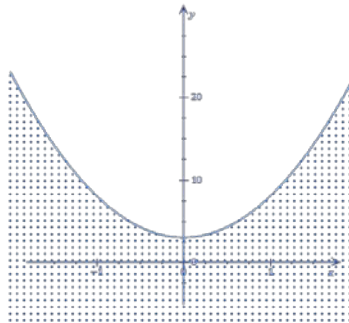


Graph  $y \leq 5x^2 + 3$ .



Solve  $e^x = 52$ .

$$x = \ln(52)$$

Expand  $(x + 5)^7$ .

$$x^7 + 35x^6 + 525x^5 + 4375x^4 + 21875x^3 + 65625x^2 + 109375x + 78125$$

Evaluate  $\int x e^{x^2} dx$ .

$$\frac{e^{x^2}}{2} + C$$

Differentiate  $\frac{x-4}{(x+4)(x+7)}$ .

$$\frac{72 + 8x - x^2}{x^4 + 22x^3 + 177x^2 + 616x + 784}$$

Find inverse of  $\begin{bmatrix} 4 & 3 \\ -1 & 2 \end{bmatrix}$ .

$$\begin{pmatrix} \frac{2}{11} & -\frac{3}{11} \\ \frac{1}{11} & \frac{4}{11} \end{pmatrix}$$

Expand  $(x + 2)(x - 4)(x + 5)^2$ .

$$x^4 + 8x^3 - 3x^2 - 130x - 200$$

Factor  $x^4 + 8x^3 - 3x^2 - 130x - 200$ .

$$(x - 4)(x + 2)(x + 5)^2$$

Sort  $\{1, 2, 90, 5, -6, 14, 0, 25, 34, -50, 24\}$ .

$$\{-50, -6, 0, 1, 2, 5, 14, 24, 25, 34, 90\}$$

Variance

$$\frac{126088}{121}$$

Sum

$$139$$

Median

$$5$$

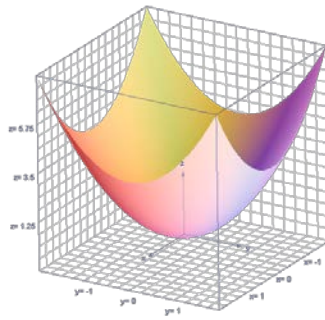
Solve  $\frac{(x^2 - 13x + 40)(x^2 - 13x + 42)}{\sqrt{x^2 - 12x + 35}} = 0$  over  $\mathbb{R}$ .

$$x = 8 \text{ or } x = 6$$

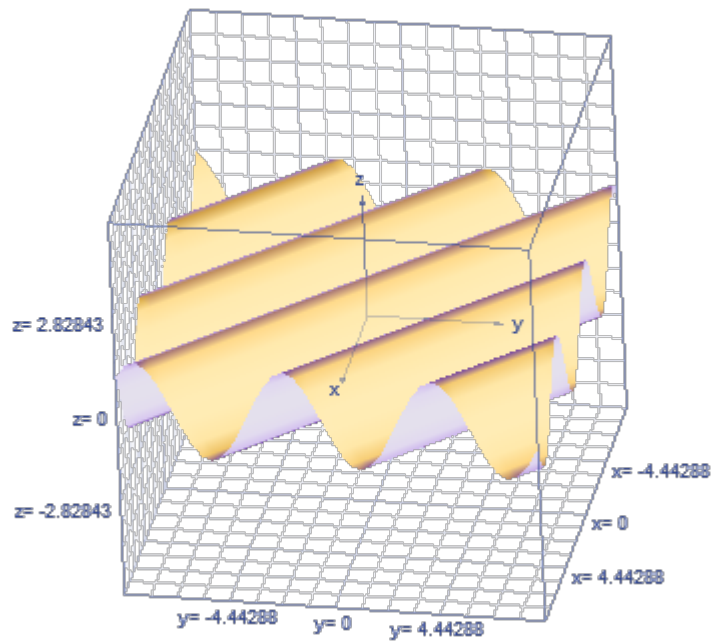
Solve  $\frac{(x^2 - 13x + 40)(x^2 - 13x + 42)}{\sqrt{x^2 - 12x + 35}} = 0$  over  $\mathbb{C}$ .

$$x = 8 \text{ or } x = 6$$

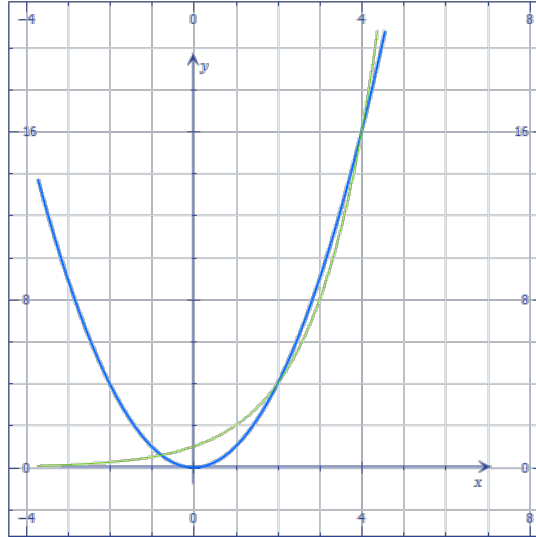
Graph  $z = x^2 + y^2$



Graph  $z = \sin(x + y) + \cos(x + y)$



Graph  $x^2 = 2^x$



Solve  $x^2 = 2^x$

$$x \approx 2$$

(obviously there are THREE solutions, but it only got one)

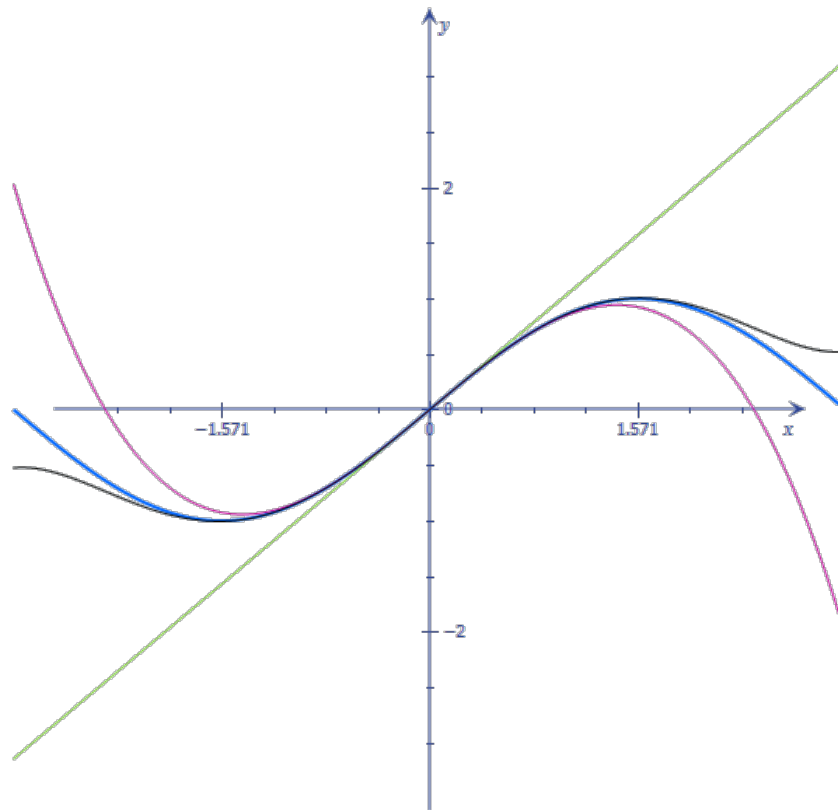
Graph all of these.

$$y = \sin(x)$$

$$y = x$$

$$y = x - \frac{x^3}{3!}$$

$$y = x - \frac{x^3}{3!} + \frac{x^5}{5!}$$



You have power over some graph features (window, zoom, tracing, etc) but not over others (color of graphs, line thickness, axis labels & increments, and other style features).