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| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Name and Sketch the Function** | **Domain** | **Range** | **Vertical Asymptote** | **Horizontal Asymptote** | **Max/Min****What is it?****(x,y)** |
| 1 | $$y=3x+2$$ |  |  |  |  |  |
| 2 | $$y=-\frac{1}{2}x+1$$ |  |  |  |  |  |
| 3 | $$x=2$$ |  |  |  |  |  |
| 4 | $$y=-5$$ |  |  |  |  |  |
| 5 | $$y=x^{2}$$ |  |  |  |  |  |
| 6 | $$y=2x^{2}-4$$ |  |  |  |  |  |
| 7 | $$y=-2x^{2}+12x-14$$ |  |  |  |  |  |
| 8 | $$y=3x^{2}-6x+2$$ |  |  |  |  |  |
| 9 | $$y=\left|x-2\right|+4$$ |  |  |  |  |  |
| 10 | $$y=-\left|x-1\right|$$ |  |  |  |  |  |
| 11 | $$y=\left|x\right|-3$$ |  |  |  |  |  |
| 12 | $$y=-\left|x+5\right|+1$$ |  |  |  |  |  |
| 13 | $$y=\sqrt{x}$$ |  |  |  |  |  |
| 14 | $$y=\sqrt{x+5}$$ |  |  |  |  |  |
| 15 | $$y=\sqrt{4-x}+4$$ |  |  |  |  |  |
| 16 | $$y=-\sqrt{x}-3$$ |  |  |  |  |  |
| 17 | $$y=\frac{1}{x}$$ |  |  |  |  |  |
| 18 | $$y=\frac{4}{x+3}$$ |  |  |  |  |  |
| 19 | $$y=\frac{4}{x^{2}+x-6}$$ |  |  |  |  |  |
| 20 | $$y=\frac{2x^{2}+5x+3}{x^{2}-4x-5}$$ |  |  |  |  |  |
| 21 | $$y=\frac{x+4}{x^{2}-16}$$ |  |  |  |  |  |
| 22 | $$y=\frac{\sqrt{x+5}}{x+3}$$ |  |  |  |  |  |