|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Predict** | **Check** | $y $**intercept** | $x $**intercept** | **Minimum point** | **Reflect** |
| $$y= x^{2}$$ |  |  |  |  |  |  |
| $$y= x^{2}+1$$ |  |  |  |  |  |  |
| $$y= x^{2}+2$$ |  |  |  |  |  |  |
| $$y= x^{2}+3$$ |  |  |  |  |  |  |
| $$y= x^{2}-3$$ |  |  |  |  |  |  |
| $$y= x^{2}-2$$ |  |  |  |  |  |  |
| $$y= (x-2)^{2}$$ |  |  |  |  |  |  |
| $$y= (x-3)^{2}$$ |  |  |  |  |  |  |
| $$y=(x+3)^{2}$$ |  |  |  |  |  |  |
| $$y= (x+2)^{2}$$ |  |  |  |  |  |  |
| $$y=(x+2)^{2}+1$$ |  |  |  |  |  |  |
| $$y=(x+2)^{2}-1$$ |  |  |  |  |  |  |

Using Desmos to plot graphs

Go to [www.desmos.com](http://www.desmos.com) then click on



Your first graph: $y= x^{2}$. Type in $y=x a^{2}$

This makes $x^{2}$