Match the equation to its description. Name:

| | | | |
|---|---|---|---|
| E1<br>$f(x) = x^2 + 2$ | E2<br>$f(x) = (x-1)^2$ | E3<br>$f(x) = -x^2 + 1$ | E4<br>$f(x) = \frac{1}{2}x^2 - 2$ |
| E5<br>$f(x) = \lvert x+1 \rvert$ | E6<br>$f(x) = \left\lvert 2(x - \frac{1}{2}) \right\rvert$ | E7<br>$f(x) = \frac{1}{2}\lvert x+1 \rvert$ | E8<br>$f(x) = -2\lvert x+2 \rvert - 1$ |
| E9<br>$f(x) = -\sqrt{x+1}$ | E10<br>$f(x) = \sqrt{-(x+1)} + 2$ | E11<br>$f(x) = 2\sqrt{x+2}$ | E12<br>$f(x) = -\sqrt{2(x - \frac{1}{2}) + 2}$ |
| E13<br>$f(x) = -x^3 + 2$ | E14<br>$f(x) = (x+2)^3 - 1$ | E15<br>$f(x) = -(x+2)^3 - 1$ | E16<br>$f(x) = (-(x+1))^3$ |

| | | | |
|---|---|---|---|
| D1<br>• Reflection across $y$-axis<br>• Horizontal Shift: Left 1 | D2<br>• Vertical Stretch: 2<br>• Horizontal Shift: Left 2 | D3<br>• Horizontal Shift: Right 1 | D4<br>• Vertical Shift: Up 2 |
| D5<br>• Reflection across $x$-axis<br>• Horizontal Shrink:1/ 2<br>• Horizontal Shift: Right 1/2<br>• Veritcal Shift: Up 2 | D6<br>• Horizontal Shift: Left 2<br>• Vertical Shift: Down 1 | D7<br>• Reflection across $x$-axis<br>• Vertical Shift: Up 1 | D8<br>• Reflection across $x$-axis<br>• Horizontal Shift: Left 1 |
| D9<br>• Vertical Shrink: $\frac{1}{2}$<br>• Vertical Shift: Down 2 | D10<br>• Reflection across $y$-axis<br>• Horizontal Shift: Left 1<br>• Vertical Shift: Up 2 | D11<br>• Horizontal Shrink:1/ 2<br>• Horizontal Shift: Right 1/2 | D12<br>• Vertical Shrink: $\frac{1}{2}$<br>• Horizontal Shift: Left 1 |
| D13<br>• Reflection across $x$-axis<br>• Horizontal Shift: Left 2<br>• Vertical Shift: Down 1 | D14<br>• Horizontal Shift: Left 1 | D15<br>• Reflection across $x$-axis<br>• Vertical Shift: Up 2 | D16<br>• Reflection across $x$-axis<br>• Vertical Stretch: 2<br>• Horizontal Shift: Left 2<br>• Vertical Shift: Down 1 |