What's the Score?

- If you have any difficulty with these solutions, please contact your teacher before continuing.

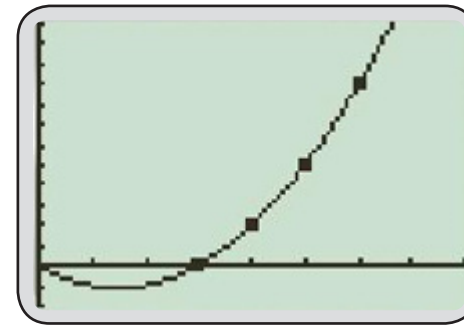
Answers will vary in appearance for all solutions because the WINDOW settings will affect the graph. Contact your teacher to confirm that your answers are correct.

1. *L1* = *x*-values = Number of sides
   L2 = *y*-values = Number of diagonals

```
WINDOW
Xmin= 0
Xmax= 8
Xscl= 1
Ymin= -2
Ymax= 12
Yscl= 1
Xres= 1
```

```
QuadReg

y= ax²+bx+c
a= 0.5
b= -1.5
c= 0
```



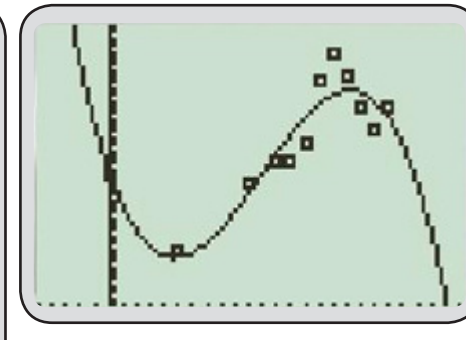
Quadratic regression: $y = 0.5x^2 - 1.5x$

2. *L1* = *x*-values = Years after 1980
   L2 = *y*-values = Amount (billions)

```
WINDOW
Xmin= -5
Xmax= 25
Xscl= 1
Ymin= 20
Ymax= 65
Yscl= 1
Xres= 1
```

```
CubicReg

y= ax³+bx²+cx+d
a= -0.0275844422
b= 0.9036474302
c= -6.627424794
d= 41.65255477
```



Regression Equation (rounded to 3 decimal places): $y = -0.028x^3 + 0.904x^2 - 6.627x + 41.653$