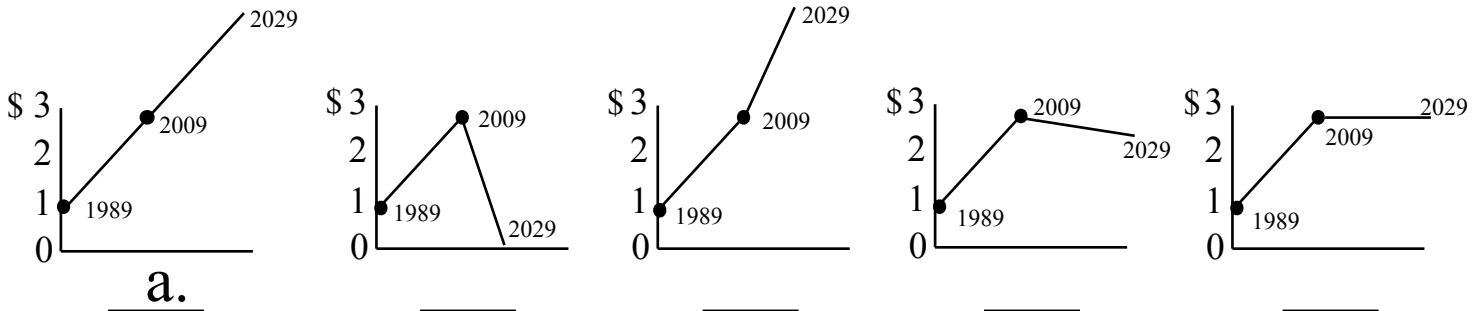


MathFLIX CHALLENGE

Five students watching COUNTDOWN learned that during the last 20 years, gas prices increased from 97¢/gallon in 1989 to \$2.47 in 2009. Each student predicted what gas would cost 20 years from now, in 2029. Can you match each prediction with the appropriate graph?

- Susan predicted gas prices will increase at the same rate.
- Odonno predicted gas prices will increase at a more rapid rate.
- Marianna predicted that gas prices will stay the same.
- Juan predicted gas prices will decline at a very slow rate.
- Diane predicted gas prices will go to zero because no one will be using gas.

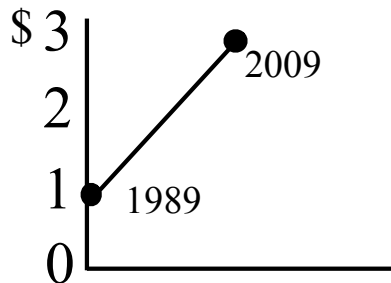


Interpolate is guessing the value of a variable **between** known values.

Use interpolation to complete this table.

| Year | Cost |
|------|--------|
| 1989 | \$0.97 |
| 1994 | |
| 1999 | |
| 2004 | |
| 2009 | \$2.47 |

What do you think the price of gas was in 1990? 1991? 1992? 1999?



Extrapolate is guessing the value of a variable **beyond** those that are known.

Color the extrapolated values on the graph below.

| Student | Prediction | Color for line |
|----------|------------|----------------|
| Susan | \$3.97 | green |
| Odonno | \$5.97 | red |
| Marianna | \$2.97 | yellow |
| Ryan | \$1.47 | blue |
| Beta | \$0.00 | purple |

What do you think the price of gas will be in 2010? 2011? 2012? 2029?

