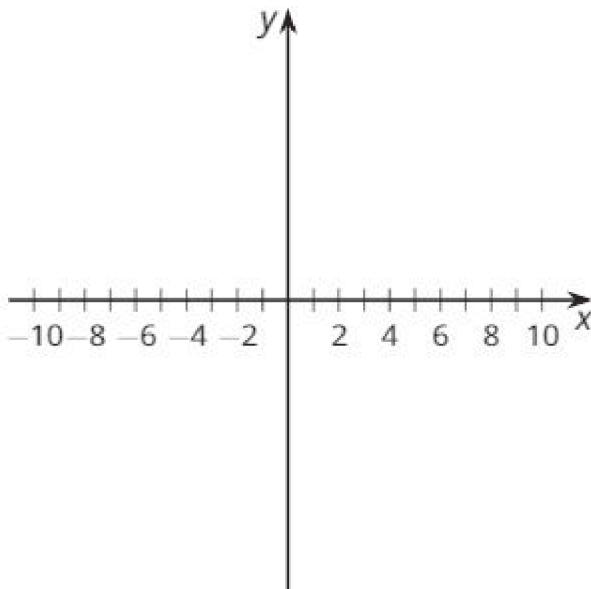


Info Gap: More Polynomials

Problem Card 1

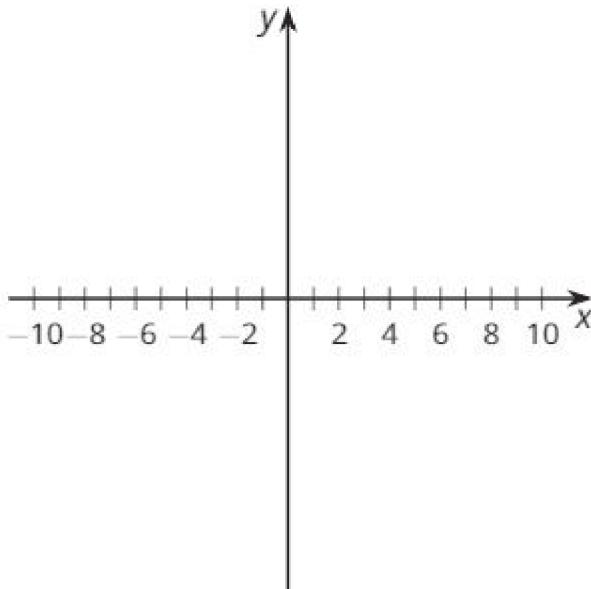
Sketch a graph of polynomial $f(x)$ which has a known factor of $(x - 9)$.



Info Gap: More Polynomials

Problem Card 2

Sketch a graph of polynomial $p(x)$ which has a known factor of $(x - 6)$.



Info Gap: More Polynomials

Data Card 1

- The graph of f has a vertical intercept at 63.
- The equation of the polynomial is $f(x) = x^3 - 3x^2 - 61x + 63$.
- The degree of the polynomial is 3.
- The polynomial has one relative minimum and one relative maximum.
- As the value of x gets larger and larger in the positive direction, the value of y gets larger and larger in the positive direction.

Info Gap: More Polynomials

Data Card 2

- As the value of x gets larger and larger in the negative direction, the value of y gets larger and larger in the negative direction.
- The equation of the polynomial is $p(x) = x^3 - 6x^2 - 16x + 96$.
- The graph has a relative minimum between $x = 4$ and $x = 6$.
- The value of the function at $x = 1$ is 75.
- The graph crosses the horizontal axis 3 times.