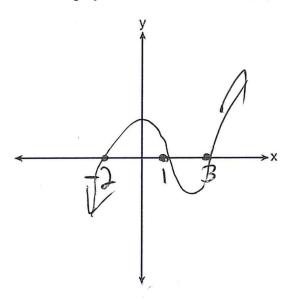
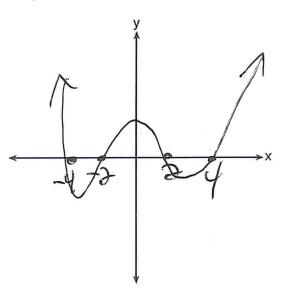
Sketching Polynomial Equations

1. On the grid below, sketch a cubic polynomial whose zeros are 1, 3, and -2.

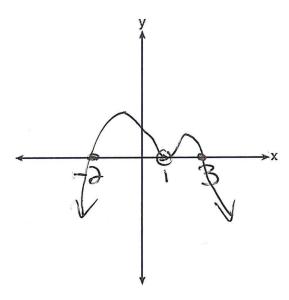


2. The zeros of a quartic polynomial function are 2, -2, 4, and -4. Use the zeros to construct a possible sketch of the function, on the set of axes below.

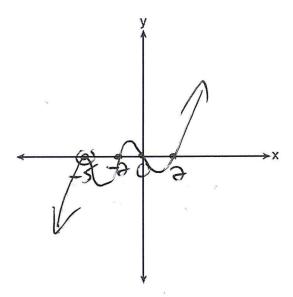


double root

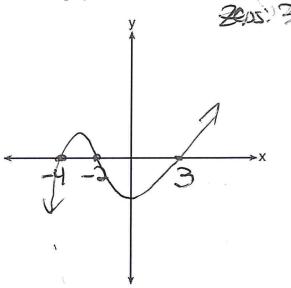
3. The zeros of a quartic polynomial function h are -2, 1, 1, and 3. Sketch a graph of y = h(x) on the grid below.

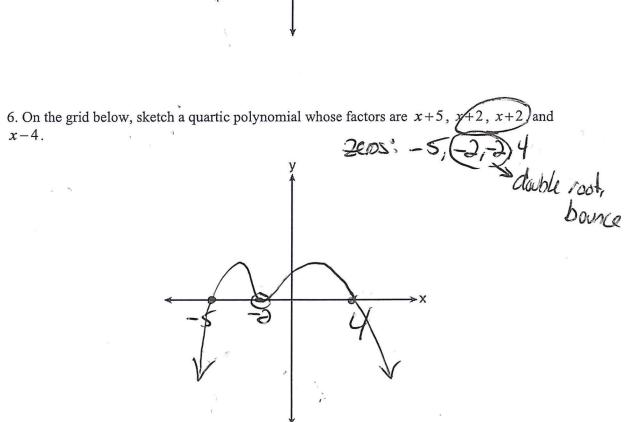


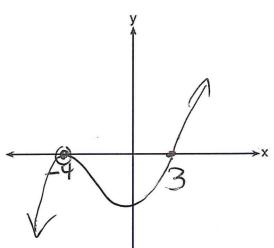
4. The zeros of a polynomial function are $(-5, -5)\pm 2$, and 0. Sketch a graph of the polynomial functions on the grid below.



5. On the grid below, sketch a cubic polynomial whose factors are x=3, x+4, and x+2.







8. On the grid below, sketch a quartic polynomial whose factors are $x^2 - 4x + 4$ and $x^2 + 10x + 25$.

(X-)(X-)

