

## 2.2 CLASSWORK

Date \_\_\_\_\_ Period \_\_\_\_\_

**Describe the end behavior of each function.**

1)  $f(x) = -2x^2 + 6$

2)  $f(x) = x^5 - 3x^3 + x + 2$

3)  $f(x) = -x^3 + 2x^2 + 3$

4)  $f(x) = x^2 - 6x + 5$

**State the possible number of real zeros and turning points for each function. Then factor each.**

5)  $f(x) = 2x^3 - 3x^2 - 5x$

6)  $f(x) = 5x^3 + 12x^2 + 4x$

7)  $f(x) = 5x^3 - 22x^2 - 15x$

8)  $f(x) = 2x^3 + 5x^2 + 2x$

9)  $f(x) = 3x^3 + 16x^2 + 5x$

10)  $f(x) = 2x^3 - 5x^2 - 3x$