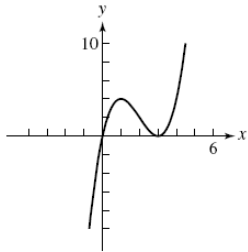


## 2.3 Day 2 HW

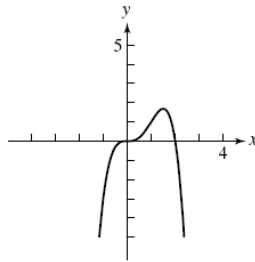
Saturday, September 12, 2015 3:49 PM

### • p. 193) #39-42, 54, 55

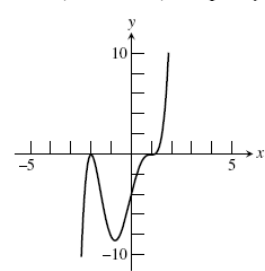
39. Degree 3; zeros:  $x = 0$  (multiplicity 1, graph crosses  $x$ -axis),  $x = 3$  (multiplicity 2, graph is tangent)



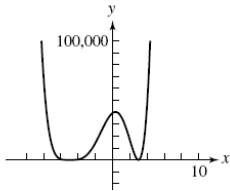
40. Degree 4; zeros:  $x = 0$  (multiplicity 3, graph crosses  $x$ -axis),  $x = 2$  (multiplicity 1, graph crosses  $x$ -axis)



41. Degree 5; zeros:  $x = 1$  (multiplicity 3, graph crosses  $x$ -axis),  $x = -2$  (multiplicity 2, graph is tangent)



42. Degree 6; zeros:  $x = 3$  (multiplicity 2, graph is tangent),  $x = -5$  (multiplicity 4, graph is tangent)



54)  $x^3 + 4x^2 - 11x - 30$

55)  $x^3 - 4x^2 - 3x + 12$