

## TANGENT LINE WORKSHEET

Find the equation of the tangent line for each of the following functions at each given value of  $x$  and draw the graph of the function and the tangent line. Also, indicate in your graph the point of intersection between the curve and the tangent line:

1)  $y = 2x^2 - 6x + 3$  at  $x = 2$

2)  $y = -5x^2 + 4x - 3$  at  $x = 1$

3)  $y = 3x^2 - x + 4$  at  $x = 0$

4)  $y = -x^2$  at  $x = 0$