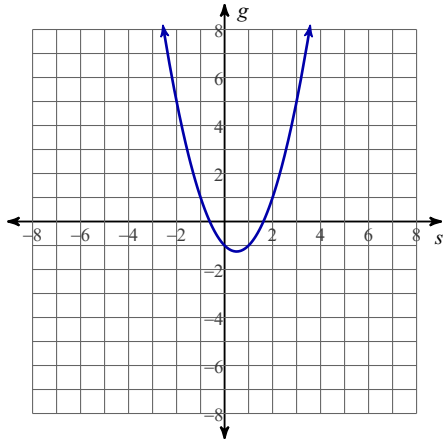


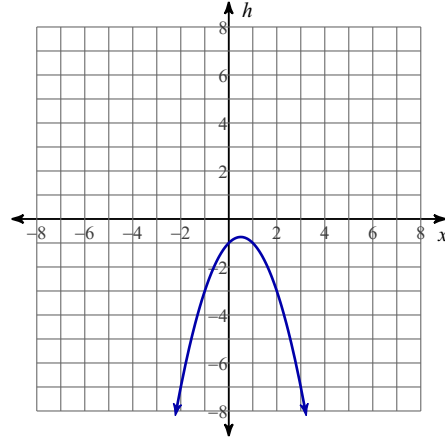
Workin' On My Tan(gent) Lines: Due 9/30

For each problem, find the equation of the line tangent to the function at the given point. Show work on a separate piece of paper; just equation in slope-intercept form and graph here.

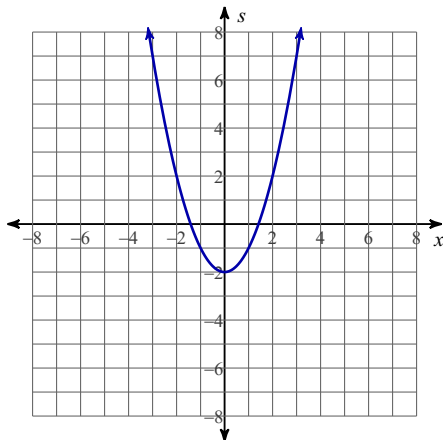
1)  $g = s^2 - s - 1$ ;  $(-1, 1)$



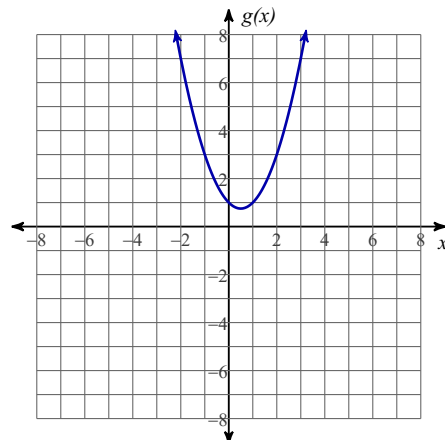
2)  $h = -x^2 + x - 1$ ;  $(1, -1)$



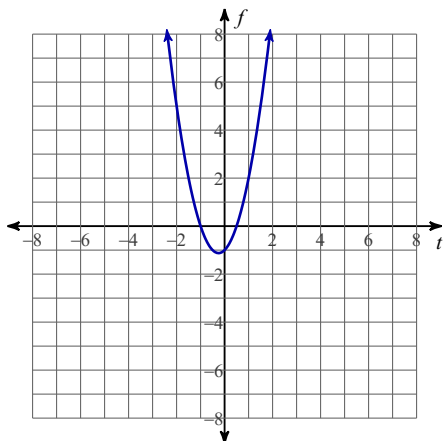
3)  $s = x^2 - 2$ ;  $(-3, 7)$



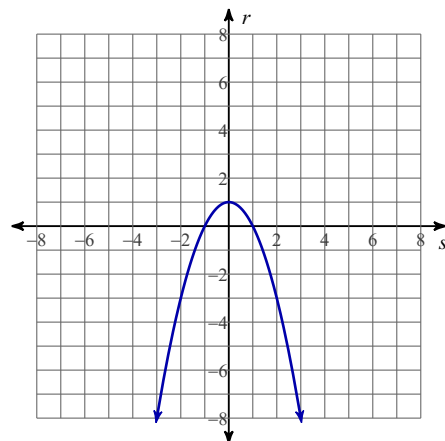
4)  $g(x) = x^2 - x + 1$ ;  $(-1, 3)$



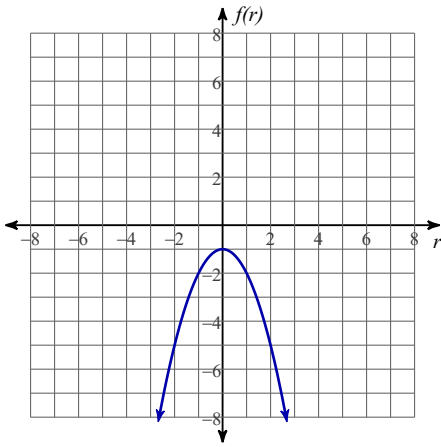
5)  $f = 2t^2 + t - 1$ ;  $(1, 2)$



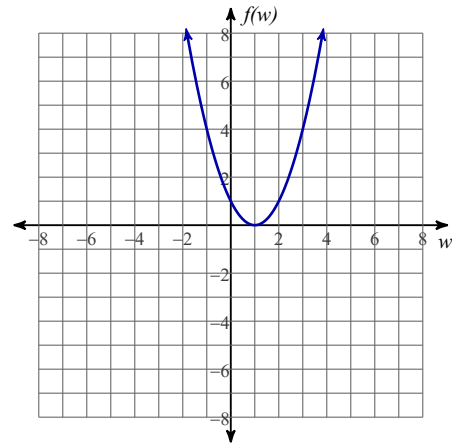
6)  $r = -s^2 + 1$ ;  $(1, 0)$



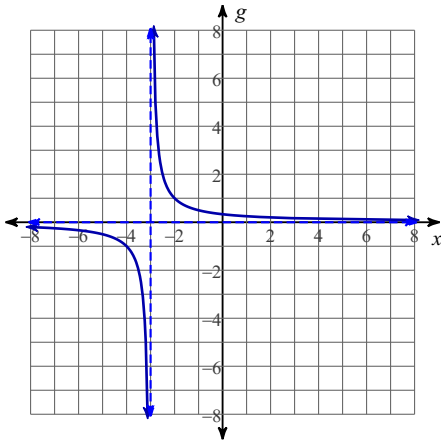
7)  $f(r) = -r^2 - 1; (-1, -2)$



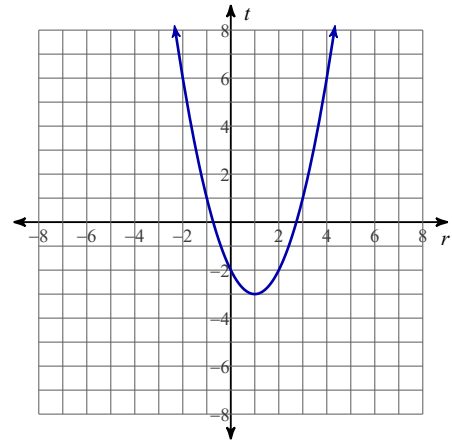
8)  $f(w) = w^2 - 2w + 1; (3, 4)$



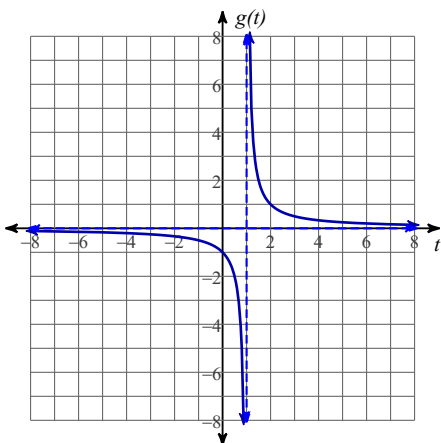
9)  $g = \frac{1}{x+3}; (-1, \frac{1}{2})$



10)  $t = r^2 - 2r - 2; (1, -3)$



11)  $g(t) = \frac{1}{t-1}; (-3, -\frac{1}{4})$



12)  $f(w) = \frac{1}{w-1}; (-2, -\frac{1}{3})$

