

Solve:

- 1) Find the equation of the tangent line to the graph of $b(x) = -5x^2 + 3x - 2$ at $x = -1$.
- 2) Find the equation of the tangent line to the graph of $c(x) = -5$ at $x = 1$.
- 3) What is the equation of the tangent line at $x = 0$ 4) assuming that $w(0) = -1$ and $w'(0) = 2$? Find the equation of the tangent line to the graph of $g(x) = 2x^2 - 4x - 2$ at $x = 2$.
- 5) Find the equation of the *normal* line to the graph of $s(x) = -4x - 1$ at $x = 0$. 6) What is the equation of the tangent line at $x = -2$ assuming that $s(-2) = 5$ and $s'(-2) = -1$?
- 7) Find the equation of the tangent line to the graph of $r(x) = -4x^4 - 4x^3 - 5x^2 - 3x - 1$ at $x = -2$. 8) Find the equation of the tangent line to the graph of $m(x) = 2$ at $x = -2$.
- 9) What is the equation of the *normal* line at $x = 2$ 10) assuming that $n(2) = -1$ and $n'(2) = -4$? Find the equation of the tangent line to the graph of $u(x) = 2x^3 - 3x^2 - 2x - 4$ at $x = -2$.