Find the equation of the tangent to $y = x^2 - 2$ where $x = 1$

$x - y = 0$

Find the equation of the normal to $y = x$ where $x = -1$

$x + y + 1 = 0$

Find the equation of the normal to $y = x^2 - 5x + 2$ where $x = 3$

$x + 8y + 49 = 0$

Find the equation of the normal to $y = (x - 2)(x + 1)$ where $x = -1$

Find the equation of the normal to $y = x^2 - 2$ where $x = 0$

$x = 0$

Find the equation of the normal to $y = x^2 - x - 2$ where it crosses the $y-$axis

$x + 3y + 6 = 0$

Find the equation of the normal to $y = x^2 - 5x + 2$ which has a gradient of 2

$x - 2y + 1 = 0$

Find the equation of the tangent to $y = x^2 + 3x - 1$ where $x = 0$

$3x - y - 1 = 0$

Find the equation of the tangent to $y = \frac{1}{x}$ where $x = -1$

$2x - y - 3 = 0$

$13x - y - 18 = 0$

Find the equation of the tangent to $y = x^2 + 5x - 2$ where $x = 4$

$-\frac{87}{32}$

Find the value of k for which $y = 2x + k$ is a normal to $y = 2x^2 - 3$

$x - y - 2 = 0$

Find the equation of the tangent to $y = 2x^2 - 3x$ which has a gradient of 1

$x + y + 2 = 0$

Find the equation of the tangent to $y = (x - 2)(x + 1)$ where $x = -1$

$8x - y - 2 = 0$

Find the equation of the tangent to $y = x^2 - 5x + 2$ where $x = 3$

Find the equation of the tangent to $y = (x - 5)(2x + 1)$ which is parallel to the $x-$axis

$y = -\frac{121}{8}$

Find the equation of the normal to $y = x^2 + 3x - 1$ where $x = 0$

$0 = 3x + 4y + x$

Find the equation of the normal to $y = x^2 - 2$ where $x = -1$

$x + 2y + 1 = 0$

Find the equation of the tangent to $y = x^2 - 2$ where $x = 0$

$y + 2 = 0$

$x - y - 7 = 0$