NO 3

$\therefore 2y - 3x - 2 = 0$ is the equation of the tangent

for the equation of the normal

$m_1 m_2 = -1$

$\frac{3}{2} m_2 = -1$

$\frac{3m_2}{3} = \frac{-2}{3}$

$\therefore m_2 = -\frac{2}{3}$

where $y - y_1 = m(x - x_1)$

$y - \left(-\frac{1}{2}\right) = -\frac{2}{3}\left(x - (-1)\right)$

$y + \frac{1}{2} = \frac{-2}{3}(x+1)$

$\frac{2y+1}{2} = \frac{-2x-2}{3}$

$3(2y+1) = 2(-2x-2)$

$6y + 3 = -4x - 4$

$6y + 4x + 3 + 4 = 0$

$\therefore 6y + 4x + 7 = 0$ is the equation of the normal