

Finding the Equation of a Tangent Line

1) $f(x) = x^3 + 2x + 1$ when $x = -1$

2) $f(x) = 4x^2 - 1$ @ $x = 3$

3) $y = (x^4 - 2x)^3$ when $x = 2$

4) $f(x) = \sin x$ when $x = \pi/2$

5) $y = \cos^3(2x)$ @ $x = \pi$