Slope and Linear Equations

Find the slope of the graph at the given point. Use the result to find an equation of the tangent line to the graph at the point.

90. $f(x) = x^2 - 1$; (2, 3)

91. $f(x) = x^3 - x$; (2, 6)

92. $f(x) = \sqrt{x+1}$; (3, 2)

93. $f(x) = 2x + \frac{4}{x}$; (2, 6)

94. Find the equation of the tangent to the given curve:
$y = x^3 - 5x^2 + 4x + 2$; when $x = 2$

95. If $f'(x) = 3x^2 + 4x + 3$, find $f(x)$.

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Answers

90. $4;\ y = 4x - 5$

91. $11;\ y = 11x - 16$ **92.** $\frac{1}{4};\ y = \frac{1}{4}x + \frac{5}{4}$ **93.** $1;\ y = x + 4$ **94.** $y = -4x + 6$

95. $f(x) = x^3 + 2x^2 + 3x + c$