Determine the Equation(s) of the lines(s) that pass through the given point and that are tangent to the graph of the given function:

1. $f(x) = -2x^2 + 3x - 5, \quad (4, -17)$

2. $f(x) = \sqrt{3 - x}, \quad (-12, 4)$

3. $f(x) = \dfrac{x-2}{x+3}, \quad (-2, 16)$

Solutions:

1. $y = -5x + 3$ and $y = -13x + 27$

2. $y = -\dfrac{1}{6}x + 2$

3. $y = 5x + 26$ and $y = 45x + 106$