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. $f(x)=-2 x^{2}+3 x-5, \quad(4,-17)$
2. $f(x)=\sqrt{3-x}, \quad(-12,4)$
3. $f(x)=\frac{x-2}{x+3}, \quad(-2,16)$

Solutions:

1. $y=-5 x+3$ and $y=-13 x+27$
2. $y=-\frac{1}{6} x+2$
3. $y=5 x+26$ and $y=45 x+106$
