Find the derivative of each function

1. $f(x) = x^5 - \dfrac{1}{8}x^2 + \dfrac{1}{4}x$ 2. $f(x) = \sqrt{x} + 1 + \dfrac{1}{\sqrt{x}}$

3. $f(x) = x^{-5} - \dfrac{1}{8}x^{-2} + \dfrac{1}{x}$ 4. $f(x) = \dfrac{2}{x^{-3}} + \dfrac{5}{x^2} - \dfrac{3}{x}$

Find the horizontal tangents to the curve

5. $f(x) = x^3 - 3x^2 + 2$

Find the derivative of each function

1. $f(x) = (x^2 + 2)(x^2 - 5x)$

2. $f(x) = \dfrac{x^2 + 1}{2x}$

3. $f(x) = (x - 2)\left(\dfrac{1}{x} + \sqrt{x}\right)$

4. $f(x) = \dfrac{2x + 1}{2x - 1}$

Find the horizontal tangents to the curve

5. $f(x) = \dfrac{5}{3}x^3 + 7x^2 - 3x + 9$