1. $\dfrac{-70r^2 + 4r + 20}{\left(7r^2 + 2\right)^2}$

2. $\dfrac{-70h^2 - 20h - 70}{\left(h^2 + 7h\right)^2}$

3. $\dfrac{-56x^2}{\left(4x^2 + 10x\right)^2}$