

(1) [3] Expand and simplify: $y^4(6 - y)(5 + y)$

(2) [3] Determine an equation of the line through $(2, 1)$ and $(1, 6)$.

(3) [3] Rationalize the numerator and simplify: $\frac{x\sqrt{x} - 8}{x - 4}$

(4) [3] Simplify (state your final answer as a single simplified fraction): $u + 1 + \frac{u}{u + 1}$

(5) [3] Factor: $6x^2 - 5x - 6$