

$$\underline{2p^4 + 10p^3 - 36p^2 - 30p}$$

Factoring completely

$$2p(6p^3 + 5p^2 - 18p - 15)$$

$$2p(6p^3 - 18p)(5p^2 - 15)$$

$$2p(6p \cancel{(p^2 - 3)})(5 \cancel{(p^2 - 3)})$$

$$2p(6p + 5)(p^2 - 3)$$