

FPE 6 Corrections

$$\begin{aligned} 10) \quad & 16x^8 - 81y^4 \\ &= (4x^4 - 9y^2)(4x^4 + 9y^2) \\ &= (2x^2 + 3y)(2x^2 - 3y)(4x^4 + 9y^2) \end{aligned}$$

$$\begin{aligned} 12) \quad & (x^2 - (x-2)^2)(x^2 + (x-2)^2) \\ &= (x-x-2)(x+x-2)(x^2 + (x-2)^2) \\ &= 2(2x-2)(x^2 + (x-2)^2) \\ &= 8(x^2 - 2x + 2)(x-1) \end{aligned}$$

$$\begin{aligned} 25) \quad & (x^2 - 3x - (x-3))(x^2 - 3x + (x-3)) \\ &= (x^2 - 4x + 3)(x^2 - 2x - 3) \\ &= (x-1)(x-3)(x+1)(x+3) \\ &= (x-3)^2(x+1)(x-1) \end{aligned}$$