

$$e) \frac{8x^3 + 4x^2}{(x-4)(2x+1)} = \frac{4x^2(2x+1)}{(x-4)\cancel{(2x+1)}} = \underline{\underline{\frac{4x^2}{x-4}}}$$

$$b) \frac{x^2 - 4x + 4}{x^2 - 3x + 2} \overset{\Delta = 16 - 16 = 0 \quad x = \frac{4}{2}}{=} \frac{(x-2)^2}{(x-1)\cancel{(x-2)}} = \underline{\underline{\frac{x-2}{x-1}}}$$

$$c) \frac{7x^5 - 42x^4 + 63x^3}{x-3} = \frac{7x^3(x^2 - 6x + 9)}{(x-3)} = \frac{7x^3(x-3)^2}{\cancel{(x-3)}} = \underline{\underline{7x^3(x-3)}}$$

$$d) \frac{8x^4 - 16x^2}{x^2(3x-4)} = \frac{x^2(8x^2 - 16)}{x^2(3x-4)} = \frac{x^2(3x-4)(3x+4)}{\cancel{x^2(3x-4)}} = \underline{\underline{3x+4}}$$