cl s6 p 64

$$-3(x-2)^{4/5} + 29 = -19$$

① $\Rightarrow$ $-3(x-2)^{4/5} = -48$

② $\Rightarrow$ $(x-2)^{4/5} = 16$

③ $\Rightarrow$ $\left[(x-2)^{4/5}\right]^{5/4} = \pm 16^{5/4}$

④ $\Rightarrow$ $x-2 = \pm\left[\sqrt[4]{16}\right]^5$

⑤ $\Rightarrow$ $x-2 = \pm 2^5$

⑥ $\Rightarrow$ $x-2 = \pm 32$

⑦ $\Rightarrow$ $x = \pm 32 + 2$

⑧ $\Rightarrow$ $x = -32+2$ OR $32+2$

⑨ $\Rightarrow$ $x = -30$ OR 34

c1s6 p 68

$$x^4 - 37x^2 + 36 = 0$$

① ⇒ Let $w = x^2$, and $w^2 = x^4$, then our original problem becomes

$$w^2 - 37w + 36 = 0$$

② ⇒ $(w-1)(w-36) = 0$

③ ⇒ $w = 1$ or $w = 36$

④ ⇒ Now, back-substitute:

$$x^2 = 1 \text{ OR } x^2 = 36$$

⑤ ⇒ $x = \pm 1$ or $x = \pm 6$