$$(x-c)^2(x-b)=0$$

$$(x^2-2cx+c^2)(x-b)=0$$

$$x^3-2x^2c+cx-bx^2+2bcx-bc^2=0$$

$$x^3+(-2c-b)x^2+(c^2+2bc)x-bc^2=0$$

$$\begin{cases} -2c-b=a \\ c^2+2bc=3 \\ -bc^2=-1 \end{cases}$$

$$\begin{cases} -(b+2c)=a \\ c(c+2b)=3 \\ bc^2=1 \Rightarrow b=\frac{1}{c^2} \end{cases} \Rightarrow c\left(c+\frac{2}{c^2}\right)=3 \Rightarrow c^2+\frac{2}{c}=3 \mid \cdot c$$

$$c^3+2=3c$$

$$c^3-3c+2=0$$

$$(x-c)^3=b(x)$$

$$x^3-3x^2c+3xc^2-bc=0$$

$c=1$

$a=-3$

(1)

$c=-2$ $\quad b=\frac{1}{4}$ (2)

$c=1$ $\quad b=1$ (3)

(2) $a=-(b+2c)=-\left(\frac{1}{4}+(-2)\cdot 2\right)=-\left(\frac{1}{4}-4\right)=\frac{15}{4}$

(3) $a=-(b+2c)=-(1+2)=-3$

(1) $a=-3$

$a=-3$ $\qquad a=\frac{15}{4}=3.75$