2173 Lis ekvationen

a)
$$x^2(x+1) - 64(x+1) = 0$$
 (Bry+ 4+ x+1)

$$(=)$$
 $(x+1)(x^2-64)=0$

$$(x+1)(x^2-8^2)=0 \qquad (konjugatre,eln)$$

$$(x+1)(x+8)(x-8)=0$$

Svar:
$$x = -1$$
, $x = -8$, $x = 8$

b)
$$(x^3 - 3x^2) - (2x - 6) = 0$$

(=)
$$\chi^2(x-3) - 2(x-3) = 0$$
 (Bryt 4+ x-3)

$$(x-3)(x^2-2)=0$$

(=)
$$(x-3)(x^2-(\sqrt{2})^2)=0$$

(=)
$$(x-3)(x+\sqrt{2})(x-\sqrt{2})=0$$

Svar: x = 3 , x = - \(\frac{1}{2}\) , x = \(\frac{1}{2}\) .