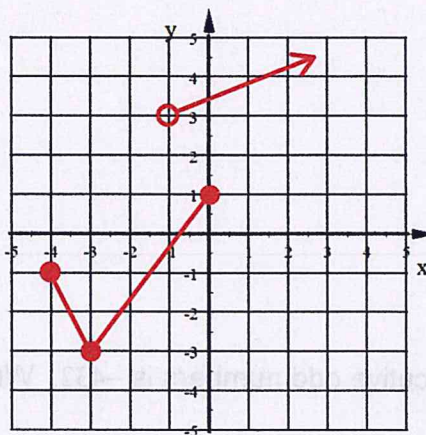


1. Solve. $2 + \sqrt{3x^2 - 11} = x^2 - 3$

2. Find the domain and range of this graph



3. Solve for K in each equation below.

a) $\sqrt[3]{\frac{E - CK}{2}} + R = X$

b) $G = T(K - Q)^2 - H$

1. Solve. $2 + \sqrt{3x^2 - 11} = x^2 - 3$

$$(\sqrt{3x^2 - 11})^2 = (x^2 - 5)^2$$

$$3x^2 - 11 = x^4 - 10x^2 + 25$$

$$0 = x^4 - 13x^2 + 36$$

$$0 = (x^2 - 4)(x^2 - 9)$$

$$0 = (x \pm 2)(x \pm 3)$$

$$x = \pm 2, \pm 3$$

extraneous sol's

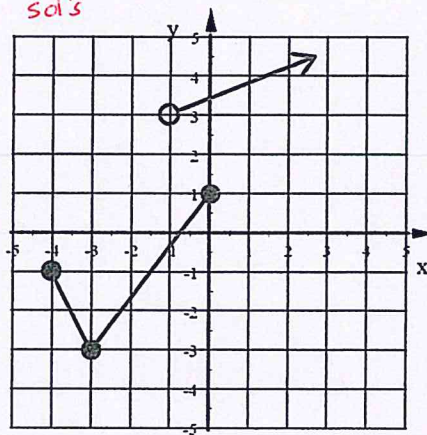
$$x = \pm 3$$

$$\begin{array}{c} +36 \\ -9 \quad -4 \\ -13 \end{array}$$

2. Find the domain and range of this graph

Domain $x \geq -4$ or $[-4, \infty)$

Range $-3 \leq y \leq 1, y > 3$
or $[-3, 1] \cup (3, \infty)$



3. Solve for K in each equation below.

a) $\sqrt[3]{\frac{E - CK}{2}} + R = X$

$$K = \frac{2(X - R)^3 - E}{-C}$$

b) $G = T(K - Q)^2 - H$

$$K = \pm \sqrt{\frac{G + H}{T}} + Q$$