

$$= \sum N_{0} \operatorname{such} y \operatorname{exists}$$

$$= \sum \operatorname{fhere} \operatorname{are} \operatorname{no} \operatorname{solutions}.$$

$$= \sum 1 = x^{2} - 1$$

$$= \sum 2 = x^{2}$$

$$= \sum x = \pm \sqrt{2}$$

$$= \sum x^{2} - 82x + 7 = 0$$

$$\operatorname{Drean}^{5} \operatorname{Find} \operatorname{real} \# a \operatorname{st}$$

$$= x^{2} - 82x + 7 + a = (x+b)^{2} \quad (f)$$

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$$= \operatorname{the} \operatorname{dreom} \operatorname{is} \operatorname{real} \# a \operatorname{st}$$

$$= x^{2} - 82x + 7 + a = (x+b)^{2} \quad (f)$$

$$= \operatorname{the} \operatorname{dreom} \operatorname{is} \operatorname{real} , \text{ then we can easily solve}$$

$$\operatorname{AdJ} a = \operatorname{to} \operatorname{bolk} \operatorname{sides}$$

$$= x^{2} - 82x + 7 + a = a$$

$$= \operatorname{the} \operatorname{tis} (x+b)^{2} = a$$

$$= \operatorname{tis}$$



$$\sum_{x \to 0} D = 0 = 1 = 10 \text{ markes seven and}$$

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$$\sum_{x \to 0} (x + 1) = 0 \text{ markes seven and}$$

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$$D = 16 - 12 = 4 > 0 \text{ markes seven and}$$

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$$D = 0 = 0 \text{ markes = 10} = 0$$
So quad formule = there is one sole.

$$\sum_{x \to 0} x^2 - 2x + 1 = 0$$

$$(x - 1)(x - 1)$$

$$\sum_{x \to 1} (x - 1)(x - 1) = 0 \text{ markes sole.}$$

$$\sum_{x \to 1} (x - 1)(x - 1) = -4 \text{ markes sole.}$$

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Section 1.8: Solving inequalities BmK 3 An ineq. is an equ but instead of having = " it involves $3 \times > 1$ د> 3x +7 = 19 $x^{1/4}/(x-i) \leq x^2 - 3x + \pi$ 65 Soln are values it x that make the ineq hold. 45 3k > (=> X > 3 $= x \operatorname{soln} \left(\frac{1}{2}, +\infty\right) = \left\{ x \mid x > \frac{1}{2} \right\}$ 4> 3×+7 ≤ 19 => 3× ≤ 12 => × 4 , => som (-00,4], {×1×44}.