12/3/2021

$$\frac{140}{2} - \frac{1}{2}x^2 + \frac{5}{2}x - 2 > 0$$

$$-x^{2}+5x-4$$
 > 0

$$(x-4)(x-1)<0$$

$$x_1 = 1$$
 $x_2 = 4$ $1 < x < 4$

$$a \times + b \times + c = a (x - x_1)^2$$

$$X_1 = \frac{-l + \sqrt{0}}{2a} = \frac{l}{2a}$$

1)
$$ax^2+bx+c>0$$

155
$$-x^2 + 3x - \frac{9}{4} \ge 0$$

$$\left[x = \frac{3}{2}\right]$$

$$\triangle = 9 - 4 \cdot \frac{9}{4} = 0$$

$$X = \frac{1}{2a} = \frac{3}{2 \cdot 1} = \frac{3}{2}$$

$$\times = \frac{3}{2}$$

152
$$x^2 - 2\sqrt{3}x + 3 > 0$$

$$[\forall x \in \mathbf{R} - \{\sqrt{3}\,\}]$$

$$\Delta = (-\sqrt{3})^2 - 1 \cdot 3 = 3 - 3 = 0$$

$$-\frac{b}{2a} = -\frac{2\sqrt{3}}{2 \cdot 1} = \sqrt{3}$$

$$\forall x \neq \sqrt{3}$$

156
$$-x^2 + 10x - 25 > 0$$

[Impossibile]

157
$$9x^2 - 6x + 1 \ge 0$$

 $[\forall x \in \mathbf{R}]$

$$156$$
 \times^2 $10 \times +25 < 0 \Delta = 100 - 100 = 0$

$$\Delta = 100 - 100 = 0$$

IMPOSSI BILE

$$\forall x \in \mathbb{R}$$