

106.

26 A 47 G 14 V Tot Biglietti = 80

$$P(GAA) = \frac{40}{80} \cdot \frac{26}{79} \cdot \frac{25}{78} = \frac{25}{474}$$

estrazione
di 3 biglietti
senza reimmisione

109.

$$P(\text{tutti e 3 dello stesso colore}) = P(GGG) + P(AAA) + P(VVV)$$

$$\frac{40}{80} \cdot \frac{39}{79} \cdot \frac{38}{78} + \frac{26}{80} \cdot \frac{25}{79} \cdot \frac{24}{78} + \frac{14}{80} \cdot \frac{13}{79} \cdot \frac{12}{78}$$

$$P(\text{colori diversi}) = P(GAV) + P(GVA) + P(AGV) + P(AVG) + P(VGA) + P(VAG)$$

2 URNE

1° = 4 B 6 R

2° = 3 B 5 R

$$a) P(B, B) = \frac{4}{9} \cdot \frac{3}{8} = \frac{3}{20}$$

$$b) P(B, R) = \frac{4}{9} \cdot \frac{5}{8} = \frac{5}{18}$$

$$c) P(B, R) + P(R, B) = \frac{5}{18} + \left(\frac{6}{10} \cdot \frac{3}{8} \right) = \frac{5}{18} + \frac{9}{40} = \frac{19}{36}$$

$$2\left(5 - \frac{13}{8}x\right) > (x+2)^2$$

$$10 - \frac{13}{4}x > x^2 + 4 + 4x$$

$$10 - \frac{13}{4}x - x^2 - 4 - 4x > 0$$

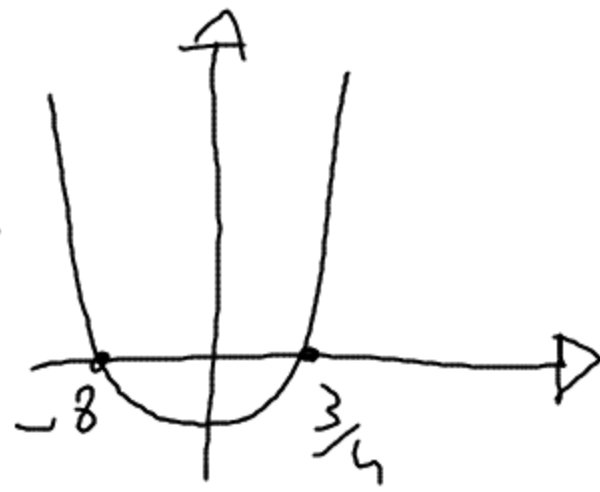
$$-x^2 - \frac{29}{4}x + 6 > 0$$

$$x^2 + \frac{29}{4}x - 6 < 0$$

$$\frac{4x^2 + 29x - 24}{4} < 0$$

$$\Delta = (29)^2 - 4(-96) = 841 + 384 = 1225$$

$$x_{1,2} = \frac{-29 \pm 35}{8} = \begin{cases} \frac{3}{4} \\ -8 \end{cases}$$



$$-8 < x < \frac{3}{4}$$