

$$y = (m-1)x^2 - (2m-2)x + 9 - m : \quad \underline{\hspace{2cm}} .$$

. x -

m

$$a = m-1 \quad b = -2(m-1) \quad c = 9-m$$

$$\underline{\hspace{10cm}}$$

: ,
:

$$(x - \hspace{2cm} 0-1) \Delta \leq 0$$

$$m > 1 \quad , (\hspace{2cm}) a > 0$$

$$\underline{\Delta \leq 0}$$

$$\Delta = b^2 - 4ac \leq 0$$

$$4(m-1)^2 - 4(m-1) \cdot (9-m) \leq 0$$

$$4(m-1)(m-1-(9-m)) \leq 0$$

$$4(m-1)(m-1-9+m) \leq 0$$

$$4(m-1)(2m-10) \leq 0$$

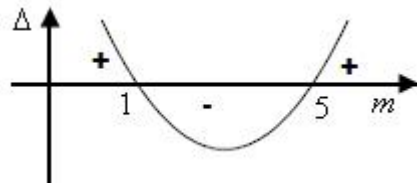
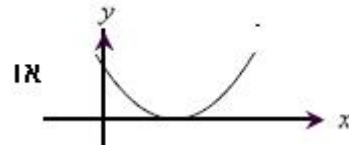
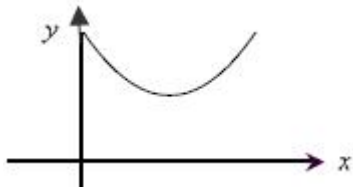
$$m_1 = 1 \quad m_2 = 5$$

$$1 \leq m \leq 5$$

$$1 < m \leq 5$$

$$m > 1$$

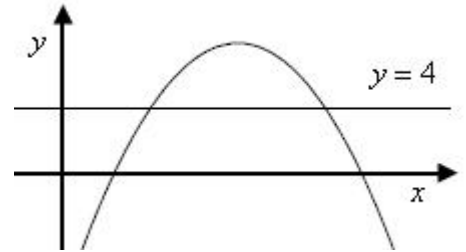
$$1 < m \leq 5 :$$



$$y = (m-1)x^2 - (2m-2)x + 9 - m : \quad \underline{\hspace{2cm}} \quad .$$

$$, y = 4 \quad \quad \quad m$$

$$a < 0 \rightarrow m < 1 \quad , \underline{\hspace{2cm}}$$



:

$$(m-1)x^2 - (2m-2)x + 9 - m = 4$$

$$(m-1)x^2 - (2m-2)x + 5 - m = 0$$

$$a = m-1 \quad b = -2(m-1) \quad c = 5-m$$

$$\underline{\hspace{10cm}}$$

$$(\quad \quad \quad) \quad \quad \quad 2) \Delta > 0$$

$$\underline{\Delta > 0}$$

$$\Delta = b^2 - 4ac > 0$$

$$4(m-1)^2 - 4(m-1) \cdot (5-m) \leq 0$$

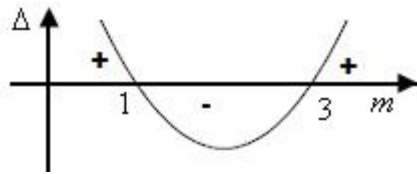
$$4(m-1)(m-1 - (5-m)) \leq 0$$

$$4(m-1)(m-1-5+m) \leq 0$$

$$4(m-1)(2m-6) \leq 0$$

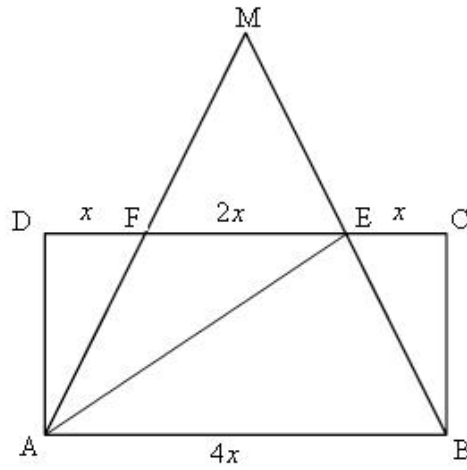
$$m_1 = 1 \quad m_2 = 3$$

$$m < 1 \quad m > 3$$



$$m < 1 \quad m < 1$$

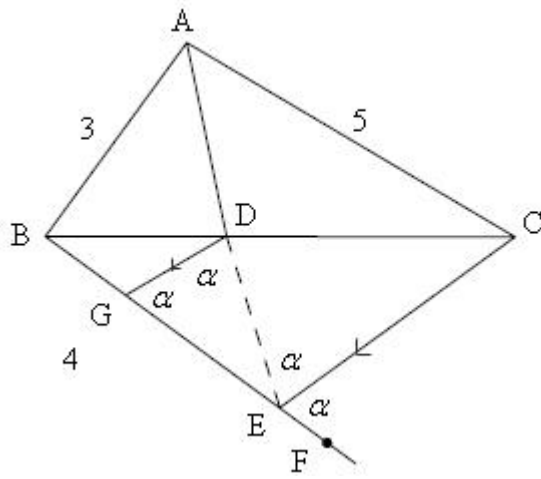
$$m < 1 :$$



AMB

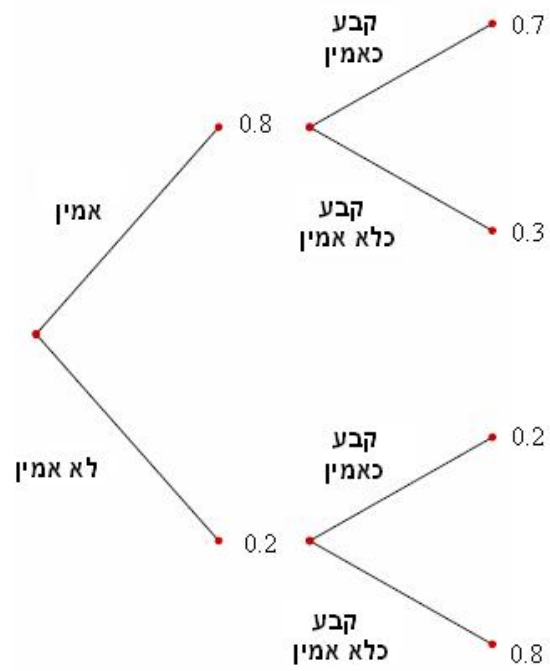
- ABCD .1
- AM = BM .2
- EF .3
- : "
- DF = EC .
- $\frac{S_{\triangle ADE}}{S_{ABCE}} = \frac{3}{5}$.

	ABCD	4	1
	() $\angle D = \angle C$	5	4
	() $AD = BC$	6	4
	$\angle DAB = \angle CBA = 90^\circ$	7	4
	AM = BM	8	2
$\triangle AMB$	$\angle MAB = \angle MBA$	9	8
	$\angle DAB - \angle MAB = \angle CBA - \angle MBA$	10	9,7
	() $\angle DAF = \angle CBE$	11	10
. . .	$\triangle DAF \cong \triangle CBE$	12	11,6,5
	DF = EC	13	12
. . .			
	FE = 2x	14	
	AMB EF	15	3
	AB = 4x	16	15,14
	DC = 4x	17	16,4
	$DF = EC = \frac{4x - 2x}{2} = x$	18	17,14,13
	$S_{\triangle ADE} = \frac{DE \cdot AD}{2x} = \frac{3x \cdot AD}{2}$	19	18,14,7
	$S_{ABCE} = \frac{(AB + CE) \cdot BC}{2x} = \frac{5x \cdot BC}{2}$	20	18,16,7
	AD = BC	21	4
	$\frac{S_{\triangle ADE}}{S_{ABCE}} = \frac{3}{5}$	22	21,20,19
. . .			



BAC AD .1
GD || EC .2
 AC = " 5 .4 AB = " 3 .3
BE = " 4 .5
 $\angle FEC = \angle CED = \frac{\angle DEF}{2}$.6 :
: "
 GE .
ΔGED .

	AB = " 3	7	3
	AC = " 5	8	4
	BAC AD	9	1
ΔABC	$\frac{AB}{AB} = \frac{BD}{BC}$	10	9
	$\frac{BD}{BC} = \frac{3}{5}$	11	10, 8, 7
	GD EC	12	2
	$\frac{BD}{BC} = \frac{BG}{GE}$	13	12
	BE = " 4	14	5
	$\frac{3}{5} = \frac{4 - GE}{GE}$	15	14, 13, 11
	$3GE = 20 - 5GE$ $8GE = 20$ GE = " 2.5	16	15, 14
. . .			
+	$\angle FEC = \angle CED = \frac{\angle DEF}{2} = r$	17	6
	$\angle DEF = 2r$	18	17
+	$\angle GDE = \angle CED = r$	19	17, 12
	$\angle DGE = r$	20	19, 18
	$\angle GDE = \angle DGE$	21	20, 19
	ΔGED	22	21
. . .			



$$P(\text{קבע כאמין}) = 0.8 \cdot 0.7 + 0.2 \cdot 0.2 = 0.6$$

0.6

$$P(\text{קבע כאמין} \mid \text{המועמד אמין}) = \frac{P(\text{קבע כאמין} \cap \text{המועמד אמין})}{P(\text{קבע כאמין})}$$

$$\frac{0.8 \cdot 0.7}{0.8 \cdot 0.7 + 0.2 \cdot 0.2} = \frac{0.56}{0.6} = \frac{14}{15}$$

 $\frac{14}{15}$

$0.7^3 = 0.343$ " 3 - 2 " :

$$k = 2, n = 3, p = 0.7,$$

$$P_3(2) = \binom{3}{2} (0.7)^2 (0.3)^{3-2} = 3 \cdot (0.7)^2 \cdot (0.3)^1 = 0.441$$

$0.2^3 = 0.008$ " 3 - 2 " :

$$k = 2, n = 3, p = 0.2,$$

$$P_3(2) = \binom{3}{2} (0.2)^2 (0.8)^{3-2} = 3 \cdot (0.2)^2 \cdot (0.8)^1 = 0.096$$

$$0.8(0.343 + 0.441) + 0.2(0.008 + 0.096) = 0.648 :$$

$$. 0.648 :$$

$$P(/) = 0.2 () .$$

$$0.2^3 = 0.008$$

$$. 0.008 :$$

