

Tugas SPtDVKK

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Kelas : X IPA 6

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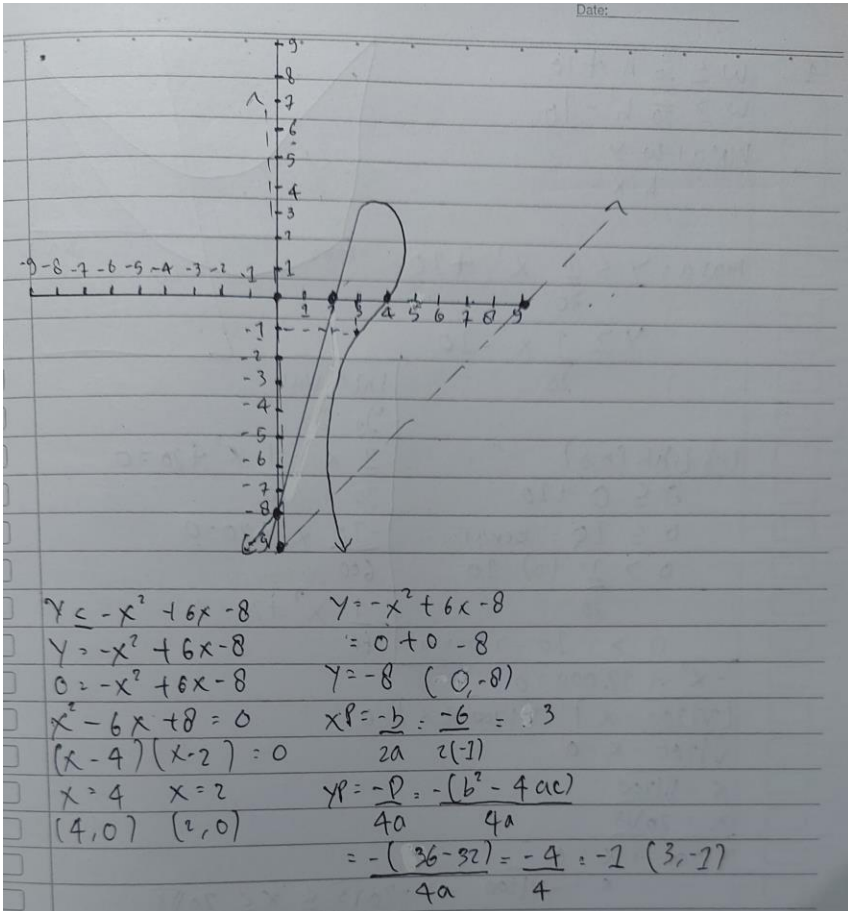
1. Dua-duanya termasuk SPLDVK karena terdiri atas
 Perbidaksamaan linear dan Perbidaksamaan kuadrat.

2. $y < 2x^2 - 3x - 5$ | $y = 0$ $x^2 = b$ $yp = -D$
 $y > x^2 - 1$ | $x = 0$ $2a$ $4a$

$y = 2x^2 - 3x - 5$
 $0 = 2x^2 - 3x - 5$
 $2x^2 - 3x - 5 = 0 \rightarrow x^2 - 3x - 5 = 0$ -5 -4 -3 -2 -1 1
 $(x-5)(x+2) = 0$ $y = x^2 - 1$
 $x = 5$ $x = -2$ $0 = x^2 - 1$
 $(5,0)$ $(-2,0)$ $x^2 - 1 = 0$
 $y = 2x^2 - 3x - 5$ $x(x-1) = 0$
 $= 0 - 0 - 5$ $x = 0$ $x - 1 = 0$
 $= -5$ $x = 1$
 $y = -5$ $(0,5)$ $(0,0)$ $(1,0)$

$y = x^2 - 1$ titik $(-3,10)$ bukan salah satu penyelesaian
 $= 0 - 1$ sistem Perbidaksamaan
 $y = -1$ $(0,1)$ tersebut

3. $y > x^2 - 9$ $y = x^2 - 9$ (xP, yP) $A=1$ $B=0$ $C=-9$
 $y = x^2 - 9$ $= 0 - 9$ $x^2 = -b = 0 = 0$
 $0 = x^2 - 9$ $y = -9$ $(0,-9)$ $2a$ 2
 $x^2 - 9 = 0$ $yp = -D = -(b^2 - 4ac)$
 $x(x-9) = 0$ $4a$ $4a$
 $x = 0$ \vee $x - 9 = 0$ $= -(0 - 4(1)(-9))$
 $x = 9$ $= -36 = -9$ $(0,-9)$
 $(0,0)$ $(9,0)$ 4



4

$w \leq \frac{1}{30} h^2 + 10$

$w \geq \frac{1}{20} h^2 - 10$

Misal $w = y$

$h = x$

Maka: $y \leq \frac{1}{30} x^2 + 10$

$y \geq \frac{1}{20} x^2 - 10$

Uji titik (0,0)

$0 \leq 0 + 10$

$0 \leq 10 \rightarrow$ benar

$0 > \frac{1}{20} (0) - 10$

20

$0 > -10 \rightarrow$ benar

$-x^2 + 12.000 = 0$

$(\sqrt{1200} - x)(-\sqrt{1200} + x) = 0$

$\sqrt{1200} - x = 0$

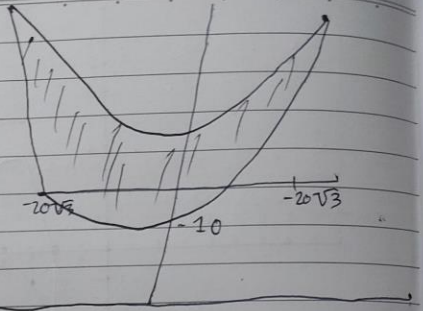
$x = \sqrt{1200}$

$x = 20\sqrt{3}$

$\sqrt{1200} + x = 0$

$x = -\sqrt{1200} \rightarrow -20\sqrt{3} \leq x \leq 20\sqrt{3}$

$x = 20\sqrt{3}$



interval:

$y_1 = y_2$

$\frac{1}{30} x^2 - \frac{1}{20} x^2 + 20 = 0$

30 20

$-\frac{1}{60} x^2 + 20 = 0$

600

$-\frac{1}{60} x^2 + 20 = 0$

60