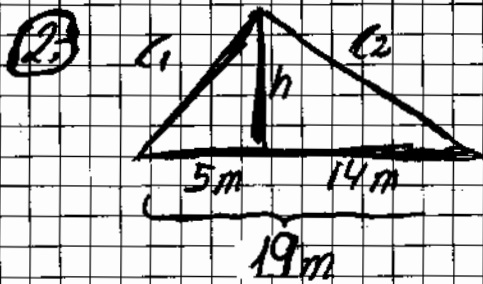
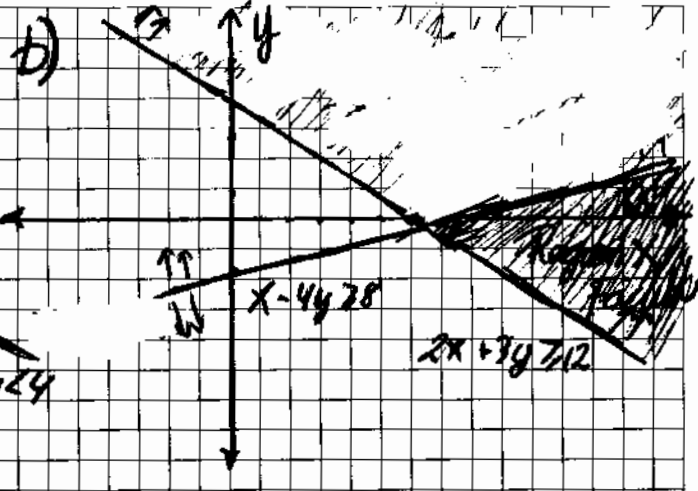
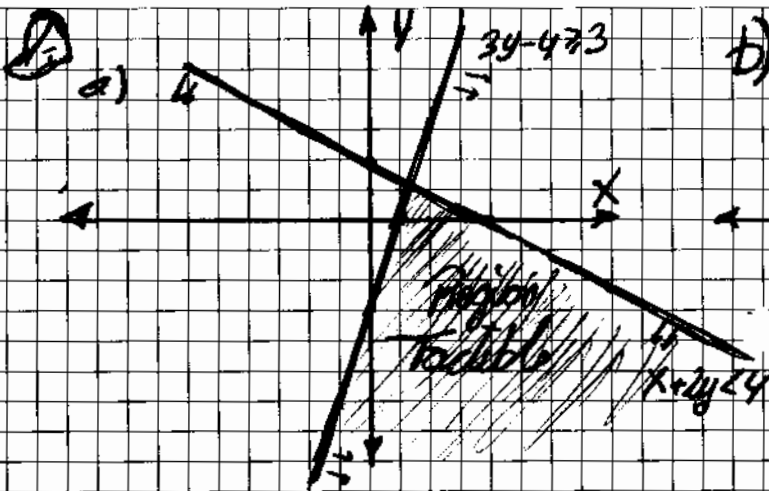




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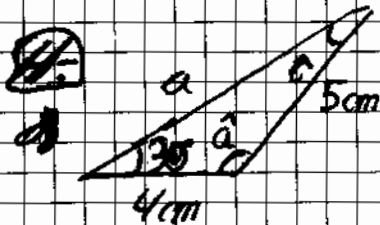
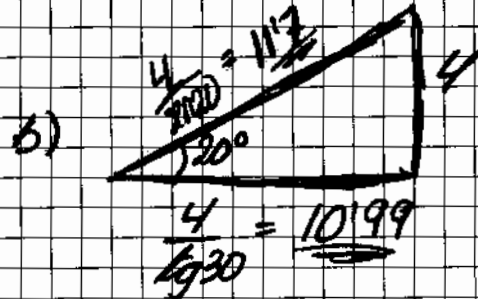
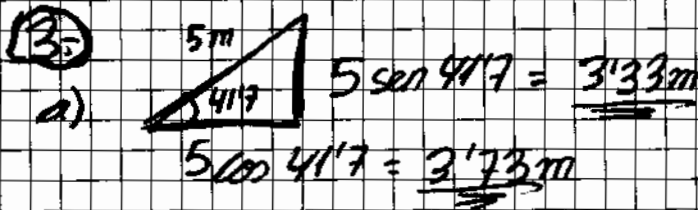
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CURSO: 4º ESO N° 2ª Evaluación
FECHA: 02-03-2019 ASIGNATURA: Matemáticas



$$c_1 = \sqrt{5 \cdot 19} = \sqrt{95} = \boxed{9'74m}$$

$$c_2 = \sqrt{14 \cdot 19} = \sqrt{266} = \boxed{16'30m}$$

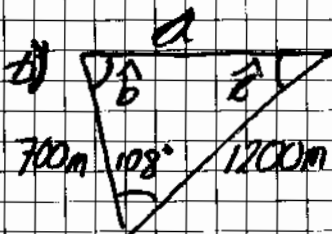
$$h = \sqrt{5 \cdot 14} = \sqrt{70} = \boxed{8'4m}$$



$$\frac{\sin 30}{5} = \frac{\sin \hat{a}}{4} \quad \hat{a} = \arcsin \frac{4 \sin 30}{5} = \underline{23'57''}$$

$$\hat{a} = 180 - 30 - 23'57'' = 126'43''$$

$$\frac{\sin 126'43''}{a} = \frac{\sin 30}{5} \quad a = \frac{5 \sin 126'43''}{\sin 30} = \underline{8'04cm}$$



$$a = \sqrt{700^2 + 1200^2 - 2 \cdot 700 \cdot 1200 \cos 108} = 1564'98m$$

$$\frac{\sin 108}{1564'98} = \frac{\sin \hat{b}}{1200} \quad \hat{b} = \arcsin \frac{1200 \sin 108}{1564'98}$$

$$\hat{b} = \underline{46'22''}$$

$$\hat{c} = 180 - 108 - 46'22'' = \underline{25'18''}$$



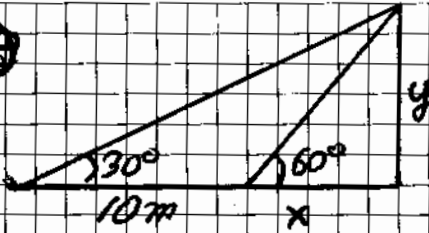
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$$\begin{aligned} \operatorname{tg} 60 &= \frac{y}{x} & \operatorname{tg} 30 &= \frac{y}{x+10} \\ y &= x \operatorname{tg} 60 & y &= x \operatorname{tg} 30 + 10 \operatorname{tg} 30 \end{aligned}$$

$$x \operatorname{tg} 60 = x \operatorname{tg} 30 + 10 \operatorname{tg} 30$$

$$x = \frac{10 \operatorname{tg} 30}{\operatorname{tg} 60 - \operatorname{tg} 30} \rightarrow y = \frac{10 \operatorname{tg} 30 \operatorname{tg} 60}{\operatorname{tg} 60 - \operatorname{tg} 30} = 5\sqrt{3}$$

$$y = \boxed{8.66 \text{ metros}}$$

- 6
- a) $P(-1, 2)$ $\bar{D}(4, -3)$
 - b) $P(3, -1)$ $\bar{D}(-1, 0)$
 - c) $P(1, 2)$ $\bar{D}(2, 3)$
 - d) $P(2, -1)$ $\bar{D}(5, -1)$
 - e) $P(0, 1)$ $\bar{D}(5, 3)$
 - f) $P(3, 0)$ $\bar{D}(1, 2)$

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a) $\bar{U}(1, 2)$ $\bar{V}(4, 2)$ $\rightarrow 2x - y = 0$ $d = \frac{|16 - 5 + 0|}{\sqrt{5}} \neq 0$
Paralelas

b) $\bar{U}(2, 3)$ $\bar{V}(-3, 2)$ $\rightarrow \bar{U} \perp \bar{V} \Rightarrow$ Secantes

c) $\bar{U}(2, 3)$ $\bar{V}(-3, 2)$ $\rightarrow \bar{U} \perp \bar{V} \rightarrow$ Secantes

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$x = -2 + \lambda$ $\bar{U}(1, 3)$ $\alpha = \arccos \frac{7}{\sqrt{6}\sqrt{13}} = \boxed{52.12^\circ}$
 $y = 3 - 3\lambda$ $\bar{V}(2, 3)$

9

$d = \frac{|6 + 4 - 5|}{\sqrt{9 + 16}} = \frac{5}{5} = \boxed{1}$

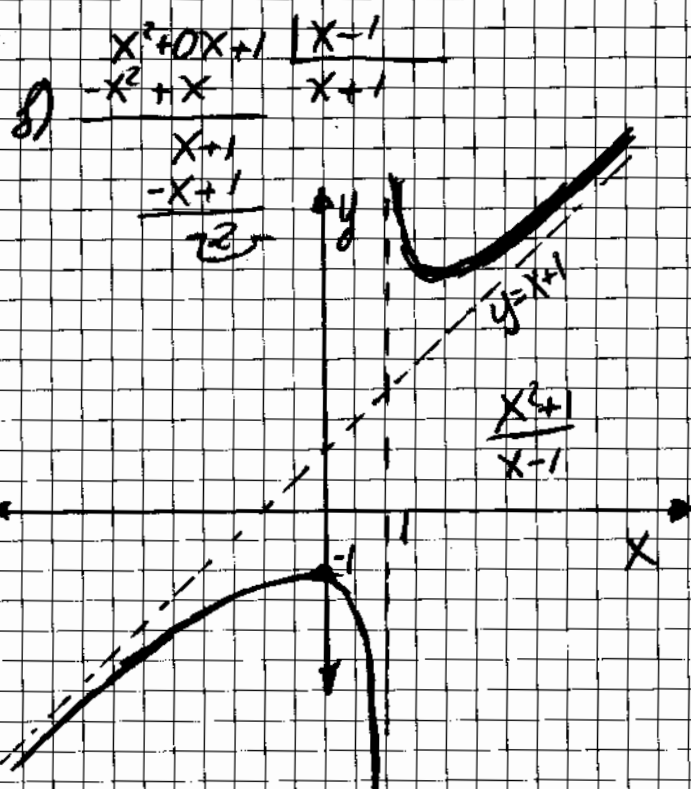
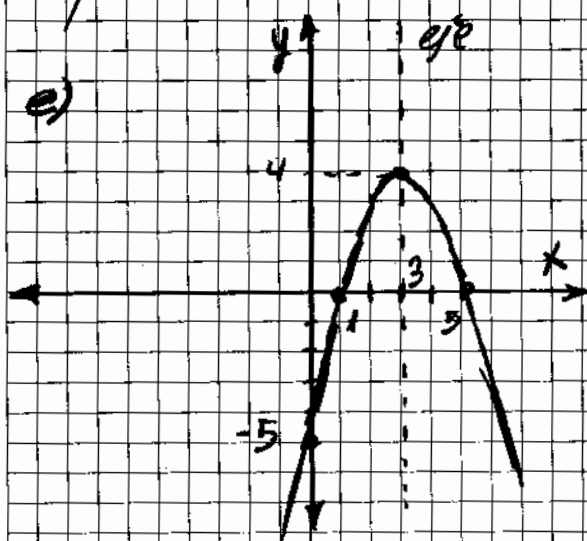
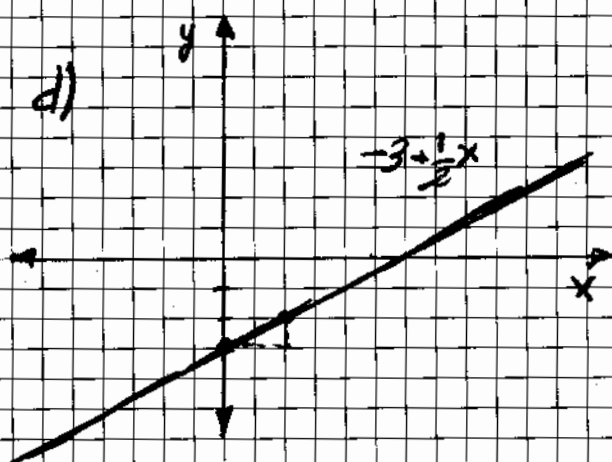
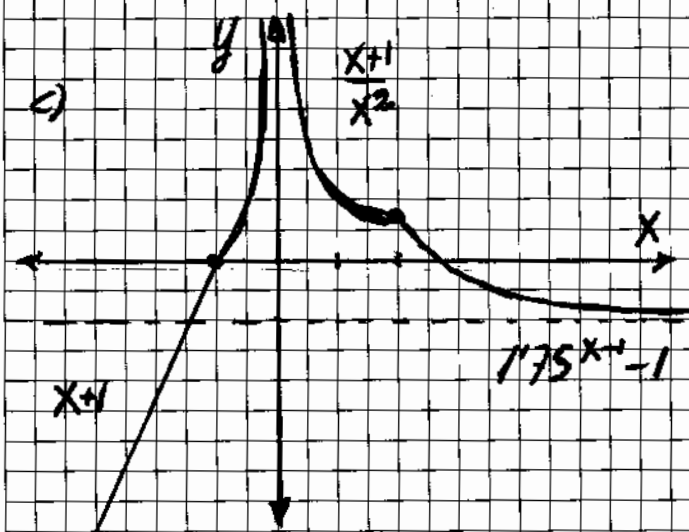
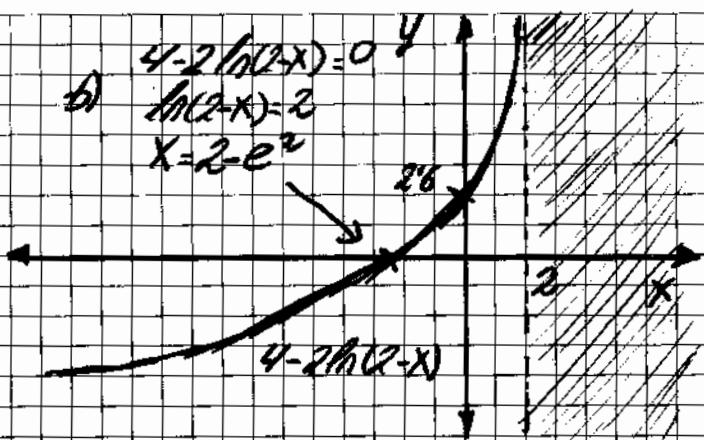
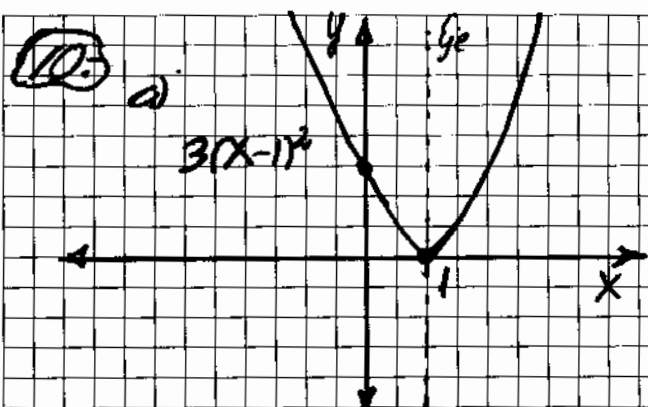


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$$\begin{array}{r|l} x^2+0x+1 & x-1 \\ -x^2+x & x+1 \\ \hline x+1 & \\ -x+1 & \\ \hline 2 & \end{array}$$



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