. Exercices:

. GG:

70:
$$f(x) = ax + b \rightarrow f(50) = 95$$
 $a = \frac{960 - 960}{60 - 50} = \frac{3}{10}$

$$F(50) = \frac{3}{10} \times + b = 95 \implies EOUA^{\circ}: \frac{3}{10}.50 + b = 95$$

(=)
$$b = 95 - \frac{156}{16} = 80$$

$$f(x) = \frac{3}{40}x + 80 =) f(0) = 80$$

· Cours:

Factorisa: . ax + b + 4ax +4b = (1+4) (ax +b) = 5(ax +b)

$$= (a+b)(a+b) = a^{2} + ab + ba + b^{2} = a^{2} + 2ab + b^{2}$$

$$\cdot (a-b)^{2} = a^{2} - 2ab + b^{2}$$

$$a^2-b^2=(a+b)(a-b)$$

Parenthèses: +(x) = x

$$-(x) = -x - (x - y) = -x + y$$

$$(x+y)^{m} = (x+y)(x+y) \cdot \cdot \cdot (x+y)$$

$$(x+y)^{m} = (x+y)^{2}(x+y)^{2} = (x+y)^{2}(x+y)^{2} = (x+y) \cdot \cdot \cdot (x+y)$$
4 Fores

$$(-x)^2 = x^2$$

$$-(x)^2 = -x^2$$

Trigonometrie: CAH SOH TOA

6 Om soit que: _ ABC est rectangle en B

Or: cos(c) = BC

Donc:
$$\frac{\log(c)}{\log c} = \frac{1}{cA} \Rightarrow CA = \frac{BC}{\cos(c)}$$

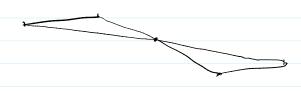
② On soit que: -ABC est rectangle en B
$$-bC = 10 \quad CA = 15$$
Or: $cos(c) = \frac{BC}{C4} = \frac{2}{3}$

$$\cos \operatorname{arcos}(\operatorname{cas}(c)) = \operatorname{arcas}(\frac{2}{3}) \implies \operatorname{simifaire} \implies x^2 = \frac{2}{3}$$

$$c = 48^{\circ}$$

$$x = \sqrt{\frac{2}{3}}$$

Symétrie:





· Oving:

$$(2x+1)^{2}+(2x+1)(x+3)+1-4x^{2}$$

=
$$(2x+1)[(2x+1) + (x+3)] + 1-4x^2$$

$$=(2x+1)(3x+4)+(1-2x)(1+2x)$$

$$=(2x+1)[(3x+4)+(1-2x)]$$

$$=(2x+1)(x+5)$$

$$4x^2 + 12x + 9 - (x-5)^2$$

=
$$(2x+3)^2 - (x-5)^2 - a^2 - b^2 = (a-b)(a+b)$$

$$= (3x - 2)(x + 8)$$