

A seguir derivando

Biomatemáticas

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Grado y Grupo: 2 A

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TAREA

1) $f(x) = 3x^2$
 $f(x) \cdot C(2x)$
 $f(x) \cdot 2x$

2) $f(x) = 5$
 $f(x) = 0$

3) $f(x) = -2x$
 $f(x) \cdot 2(3x)$
 $f(x) = 2x$

4) $f(x) = -2x + 2$
 $f(x) = 2x + 2$

5) $f(x) = 2x^2 + 2$
 $f(x) = 4x + 2$

6) $f(x) = 4x^3 + 6x$
 $f(x) = 8x^2 + 6x$
 $f(x) = 8x^6$
 $f(x) = 8(6x^5)$
 $f(x) = 48x^5$

8) $f(x) = 7$
 $f(x) = 0$

9) $f(x) = (3x^2 + 2x) + (6x^4 + 16)$
 $24x^3 + 16(6x + 2x) + (6x^4 + 6)$

10) $f(x) = (8x + 2) - (3x^2 - x)$
 $f(x) = 6x(8x + 2) - (3x^2 - x)$

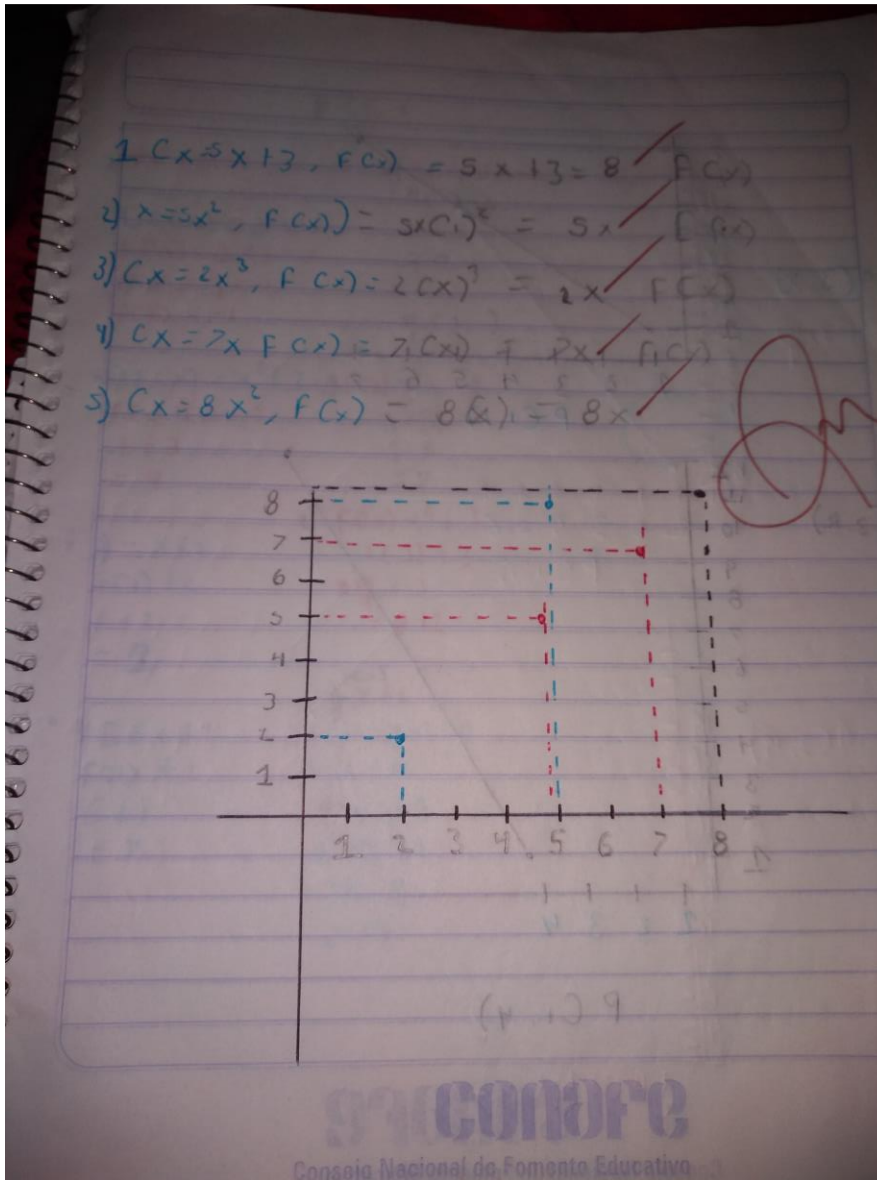
11) $f(x) = (7x^4 + 6x^3 - 5x^2 + x)^3$
 $3(7x^4 + 6x^3 - 5x^2 + x)(28x^3 + 18x^2 - 10x)$
 $84x^3 + 54x^2 - 30x$

12) $f(x) = \frac{8x^6 - 6x^3 - 4}{2x^4}$
 $= 8x^3(48x^5 - 18x^2 - 4)(2x^4)$

13) $f(x) = \frac{2x^3 - x^2}{6x^2 + x + 2}$
 $= \frac{12x(2x^3 - x^2) - 6x^2 - x^2}{6x^2 + x + 2}$

12) $f(x) = 2x^3 + 5x^2 + 6x$
 $4(2x^3 + 5x^2 + 6x)(6x^2 + 10x + 6)$
 $24x^2 + 40x + 27x$

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P (1, 7)

• 1) $f(x)$

1) $f(x) = 3x - 2$
 $f(x) = 3 \times 1 - 2$
 $f(x) = 3 - 2$
 $f(x) = 1$

2) $f(x) = 5x - 5$
 $f(2) = 5 \times 2 - 5$
 $f(2) = 10 - 5$
 $f(2) = 5$

3) $f(x) = 5x - 3$
 $f(3) = 5 \times 3 - 3$
 $f(3) = 15 - 3$
 $f(3) = 12$

4) $f(x) = x^2 + 3$
 $f(1) = 1^2 + 3$
 $f(1) = 1 + 3$
 $f(1) = 4$

5) $f(x) = 3x - 2$
 $f(3) = 3 \times 3 - 2$
 $f(3) = 9 - 2$
 $f(3) = 7$

6) $f(x) = x^2 + 3$
 $f(3) = 3^2 + 3$
 $f(3) = 9 + 3$
 $f(3) = 12$

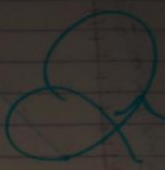
7) $f(x) = -x + 2$
 $f(1) = -1 + 2$
 $f(1) = 1$

8) $f(x) = -x + 2$
 $f(1) = -1 + 2$
 $f(1) = 1$

9) $f(x) = 6x + 1$
 $f(1) = 6 \times 1 + 1$
 $f(1) = 6 + 1$
 $f(1) = 7$

10) $f(x) = -3x + 2$
 $f(x) = 4$
 $f(3) = -3 \times 3 + 2$
 $f(3) = -9 + 2$
 $f(3) = -7$

11) $f(x) = 6x + 1$
 $f(3) = 6 \times 3 + 1$
 $f(3) = 18 + 1$
 $f(3) = 19$


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$P(1, 7)$

• si $f(x)$

<p>1) $f(x) = 3x - 2$ $f(x) = 3 \times 1 - 2$ $f(x) = 3x - 2$ $f(x) = -1$</p>	<p>5) $f(x) = 5x - 5$ $5 \times 2 - 5$ $5 - 5$ $= 0$</p>	<p>5) $f(x) = 5x - 5$ $5 \times 3 - 5$ $15 - 5$ $= 10$</p>
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$q(3, 7)$

• 2) $f(x) = x^2 + 3$

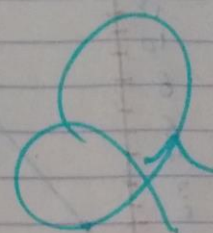
<p>1) $f(x) = x^2 + 3$ $1 + 3$ $= 4$</p>	<p>1) $f(x) = 3x - 2$ $3 \times 3 - 2$ $9 - 2$ $= 7$</p>
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• 3) $-x + 2$

<p>1) $f(x) = -x + 2$ $1 + 2$ $= 3$</p>	<p>1) $f(x) = x^2 + 3$ $9 + 3$ $= 12$</p>
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• 4) $6x + 1$

<p>6) $f(x) = 6x + 1$ $6 + 1$ $= 7$</p>	<p>3) $f(x) = -x + 2$ $f(x) = -3 + 2$ $f(x) = 4$</p> <p>4) $6x + 1$ $6 \times 3 + 1$ $18 + 1$ $= 19$</p>
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$m0 \uparrow 85\% \frac{c/h}{3 \text{ hrs} \times 4 \text{ hrs}}$
 $N(4) \text{ No} + 0.85 \text{ No} = \text{No} (1.85)^4$
 $N(3) \text{ No} + 0.85 \text{ No} = \text{No} (1.85)^3$

$m0 \uparrow 60\% \frac{c/h}{1 \times 5 \text{ hrs}}$
 $N(1) \text{ No} + 0.6 \text{ No} = \text{No} (1.6)^1$
 $N(5) \text{ No} + 0.6 \text{ No} = \text{No} (1.6)^5$

$m0 \uparrow 20\% \frac{c/h}{1 - 2}$
 $N(1) \text{ No} + 20 \text{ No} = \text{No} (2.1)^1$
 $N(2) \text{ No} + 20 \text{ No} = \text{No} (2.1)^2$

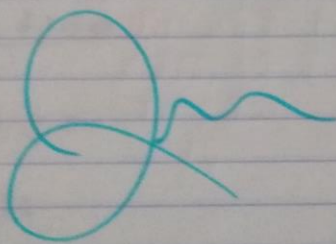
$m0 \uparrow 35\% \frac{c/h}{-6 \text{ hrs} - 12 \text{ hrs} / 24 \text{ hrs}}$
 $N(6) \text{ No} + 35 \text{ No} = \text{No} (1.35)^6$
 $N(12) \text{ No} + 35 \text{ No} = \text{No} (1.35)^{12}$
 $N(24) \text{ No} + 35 \text{ No} = \text{No} (1.35)^{24}$


$1.8x^4 = 7.4$
 $7.4 \times 2500 = 18,500$
 $1.8x^3 = 5.55$
 $5.55 \times 2500 = 13,875$

$1.6x^1$
 $1.6x^2 = 8$
 $1.6 \times 2500 = 4000$
 $8 \times 2500 = 20,000$

$2.1x^1 = 2.1$
 $2.1 \times 2500 = 5250$
 $1.2x^2 = 2.4$
 $2.4 \times 2500 = 6000$

$1.35x^6 = 8.1$
 $8.1 \times 2500 = 20,250$
 $1.35x^{12} = 16.2$
 $16.2 \times 2500 = 40,500$
 $1.35x^{24} = 32.4$
 $= 81,000$





Convertir C a F o F a C
según correspondo y compruebo

20°

1) $F = 9 (20) + 160$
 $F = \frac{180}{5} + 32$
 $F = 36 + 32$
 $F = 68 F$

2) $F = 9 (104) + 160$
 $F = \frac{936}{5} + 32$
 $F = 187.2 + 32$
 $F = 219.2 F$

3) $F = 9 (140) + 160$
 $F = \frac{1260}{5} + 32$
 $F = 252 + 32$
 $F = 284 F$


4) $F = 9 (37.2) + 160$
 $F = \frac{334.8}{5} + 32$
 $F = 66.96 + 32$
 $F = 98.96 F$

5) $F = 9 (35.5) + 160$
 $F = \frac{319.5}{5} + 32$
 $F = 63.9 + 32$
 $F = 95.9$

6) $F = 9 (95) + 160$
 $F = \frac{855}{5} + 32$
 $F = 171 + 32$
 $F = 203$

7) $F = 9 (4) + 160$
 $F = \frac{36}{5} + 32$
 $F = 7.2 + 32$
 $F = 39.2$

8) $F = 9 (5) + 160$
 $F = \frac{45}{5} + 32$
 $F = 9 + 32$
 $F = 41$


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