

Clé de correction

Outil de révision des notions, 2e cycle du secondaire

SECTION 1

1.1 $7x^4 + 8x^2 - 3x - 3x^2 + 2x - x^4 + 5 =$

Réponse : $6x^4 + 5x^2 - x + 5$

1.2 $5a^2c(2a - 4c + 3ac^4)$

Réponse : $10a^3c - 20a^2c^2 + 15a^3c^5$

1.3. $(9a^2xy + 6ax^2 - 3a^2x) \div (-3ax) =$

Réponse: $-3ay - 2x + a$

1.4 $(a - 3y)(2a + y) =$

Réponse : $2a^2 - 5ay - 3y^2$

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2. $(12a^6 - 8a^5 + 4a^3) \div 4a^2 - 2(a^3 + a) =$

$3a^4 - 2a^3 + a - 2a^3 - 2a$

Réponse: $3a^4 - 4a^3 - a$

SECTION 2

1.1 A $(-2,5 ; 0)$

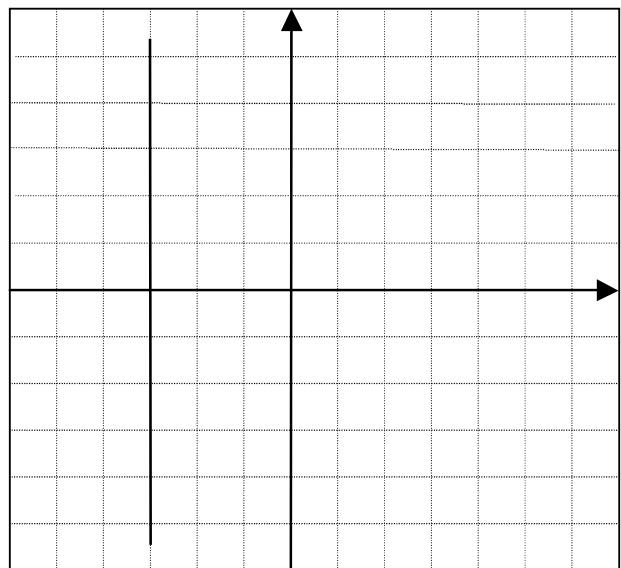
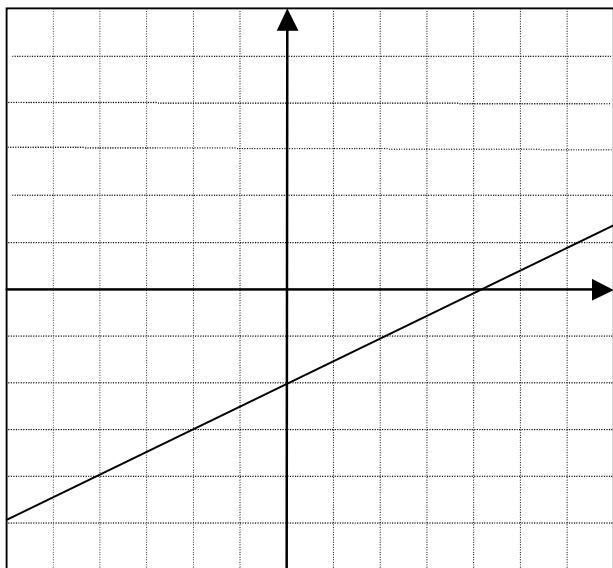
B $(2, -3)$

1.2 Réponse : (0,1) et (2,0)

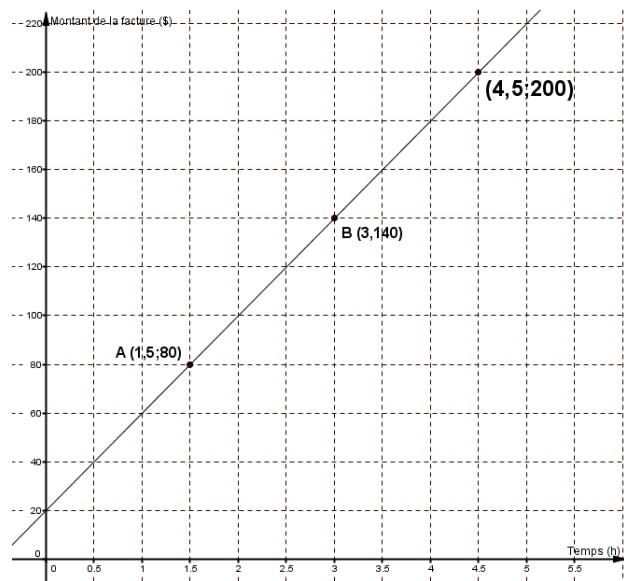
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2.1 a) $x - 2y - 4 = 0$

b) $\frac{2x}{3} + 2 = 0$



2.2 Réponse : $4 \frac{1}{2}$ heures



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$$3.1 \quad m = \frac{-7+1}{0-5} = \frac{-6}{-5} = \frac{6}{5}$$

Réponse : $m = \frac{6}{5}$

$$3.2 \quad 3x + 2y = 4$$

$$\frac{2y}{2} = \frac{3x}{2} + \frac{4}{2} \quad m = -\frac{3}{2}$$

$$m = \frac{-3}{2}$$

Réponse : $m = \frac{-3}{2}$

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$$4.1 \quad \frac{1}{2} = \frac{y-3}{x-5}$$

$$2y - 6 = x - 5$$

$$2y = x + 6 - 5$$

$$2v = x + 1$$

Réponse : $y = \frac{x}{2} + \frac{1}{2}$ ou $x - 2y + 1 = 0$

$$4.2 \quad m = \frac{5-4}{-3-2} = \frac{1}{-5} = -\frac{1}{5}$$

$$\frac{-1}{5} = \frac{y - 4}{x - 2}$$

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$$\frac{-1}{5} = \frac{y - 5}{x + 3}$$

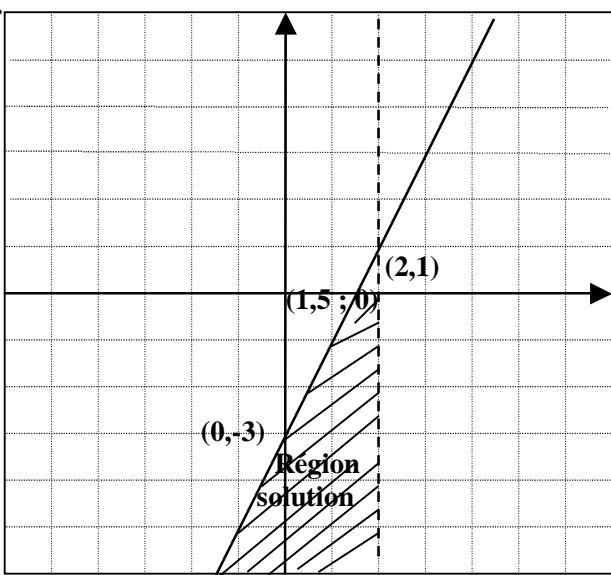
$$5y - 20 = -x + 2$$

Réponse : $x + 5y - 22 = 0$ ou $y = \frac{-x}{5} + \frac{22}{5}$

SECTION 3

1. Réponse : (3, -1)

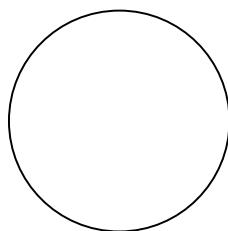
2.



3. $x + y = 175$
 $x = 10 + 2y$

SECTION 4

1.1 Rayon 1,5 cm



1.2 $A = \pi r^2$

$$A = 3,14 \times 4^2$$

$$= 3,14 \times 16 = \boxed{50,24 \text{ m}^2}$$

$$1.3 \quad C = 2 \pi r$$

$$\begin{array}{rcl} 188,4 & = & 2 \times 3.14 \times r \\ \hline 188,4 & = & r \\ \hline 6,28 & & \end{array}$$

$$r = 30 \text{ cm}$$

2. $\frac{\overline{DE}}{\overline{BC}} = \frac{\overline{AE}}{\overline{AB}}$ ou $\frac{6}{8} = \frac{\overline{AE}}{\overline{15}}$ ou équivalent