3.1 b

3.2 a

3.3 bc

3.4 hij

3.5 pr

3.11 e

3.12 ab

3.13 a

3.14 bd

3.15 d

3.17 a

3.18 g

3.19 ab

3.20 ab

3.21 ad

11 09

3.1 b) $10x^7$

3.2 a) $-21x^4y^5z^5$

3.3 b) $27x^6y^3$

c) z^4y^4

3.4 h) b^2

i) $3x$

j) x^7

3.5 p) $5x^2y^2$

r) $16x^8y^{12}$

3.11 e) $19xz^2$

3.12 a) $9x$

b) $-11x$

3.13 a) $7x^2-6$

3.14 b) $6x+5y$

d) x^2+1

3.15 d) $6x$

3.17 a) x^2-y^2

3.18 g) $-3x^2+2x+5$

3.19 a) x^3+2x^2-x

b) $4xy+10y$

3.20

a) $6xy-14x-15y+35$

b) $108z-135yz-132+165y$

3.21

a) $3x^3-x^2-6x^2+2x$

$= 3x^3-7x^2+2x$

3.21 d)

$30z^3-15z^2-20z$

$-18z^2+9z+12$

$= 30z^3-33z^2-11z+12$

b) $5y^3+10y^2-y^2-2y =$

$5y^3+9y^2-2y$

11 23

A faire ensuite :

Exercices du chap 4.2

4.5 b

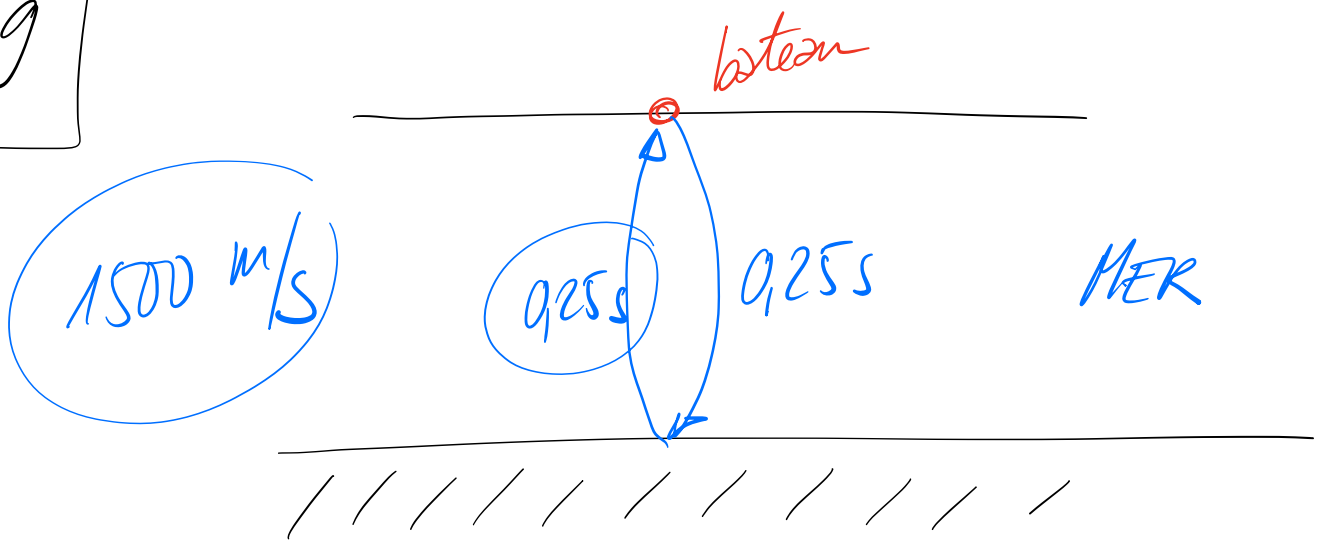
4.8 b

2.14 bgln

2.18 g

2.21

2.19



$v = \frac{d}{t}$ $\quad d = v \cdot t$ $\quad m s^{-1} = m \cdot \frac{1}{s}$

$d = 1500\ m/s \cdot 0{,}25\ s$

$m/s \cdot s = m$

$m s^{-1} \cdot s^{1} = m s^{0} = m$

$d = 375\ m$

$$d = v \cdot t$$

$\frac{m}{\cancel{s}} \cdot \frac{\cancel{s}}{1} = m$

mètre = mètre / seconde · seconde / 1

45 b) $\frac{F}{1} = \frac{GmM}{d^2}$

$\frac{d^2}{1} = \frac{GmM}{F}$

$d^2 = \frac{GmM}{F}$

20 millièmes de mm en m

$$20 \cdot 10^{-3} \cdot 10^{-3} = 20 \cdot 10^{-6}$$

$$= 2{,}0 \cdot 10^{1} \cdot 10^{-6}$$

$$= \underline{2{,}0 \cdot 10^{-5}\ m}$$

$$\frac{\frac{20}{1000}}{\frac{1000}{1}} = \frac{20}{1000} \cdot \frac{1}{1000} = \frac{20}{10^6}$$

$$F_{1,2} = k_C \cdot \frac{|q_1| \cdot |q_2|}{r^2}$$

$$F_{1,2} = 9 \cdot 10^9 \frac{|1{,}6 \cdot 10^{-19}| \cdot |-1{,}6 \cdot 10^{-19}|}{(3 \cdot 10^{-10})^2}$$

$$= 9 \cdot 10^9 \cdot \frac{1{,}6 \cdot 10^{-19} \cdot 1{,}6 \cdot 10^{-19}}{9 \cdot 10^{-20}}$$

$$= 1 \cdot 9 \cdot \frac{1{,}6^2}{9} \cdot \frac{10^9 \cdot 10^{-38}}{10^{-20}}$$

$$= 2{,}56 \cdot 10^9$$

$|-5| = 5$

$|+8| = 8$

Valeur absolue

$|-1{,}5| = 1{,}5$

$|2| = 2$