Exo Maths TD 2

Exo 1

- 1) (AB) = -2x 11
 - (BC) = 2/3x + 7/3
 - (CD) = -x 1
 - (DE) = 2x 4
 - (EF) = -4x + 20
- 2) ARI = $(RI*AR)/2 = ((1/2)*1)/2 = \frac{1}{4}$
 - $IBJ = \frac{1}{4} + \frac{3}{4} = 1$
 - $JKC = \frac{3}{4} + \frac{1}{2} = \frac{5}{4}$
 - KDL = 2 + 1 = 3
 - LME = 4 + 2 = 6
 - MTF = 2
- 3) f'(-11/2) = -2
 - f'(-3) = 2/3
 - f'(0) = -1
 - f'(3/2) = 2
 - f'(1/2) = -1
 - f'(3) = 2
 - f'(5) = -4
 - f'(4) = 0

$$\int_{-6}^{-5} f(x) dx = 0$$

$$\int_{-5}^{2} f(x)dx = -\frac{3}{4} + \frac{5}{4} - 3 = -\frac{5}{2}$$

$$\int_{1}^{4} f(x)dx = 4 - 1 = 3$$

$$\int_0^6 f(x)dx = 4 - 5/2 = 3/2$$

$$\int_{-6}^{2} f(x) dx = -5/2$$

$$\int_{-3}^{4} f(x)dx = \text{JCK} - \frac{1}{12} - \text{KLD} + 4 = \frac{5}{4} - \frac{1}{12} - 3 + 4 = \frac{13}{6}$$

$$\int_{1}^{3} f(x) dx = 0$$

$$\int_{-6}^{6} f(x) dx = 3/2$$

Exo 2

- 1) (AB) = -4x 20
 - (BC) = 2x + 4
 - (CD) = -x + 1
 - (DE) = 2/3x 7/3
 - (EF) = -2x + 11
- 2) ARI = 2
 - IBJ = 6
 - JKC = 3
 - KDL = 5/4
 - LME = 1
 - MTF = 1/4
- 3) f'(-11/2) = -4
 - f'(-3) = 2
 - f'(0) = -1
 - f'(3/2) = -1
 - f'(1/2) = -1
 - f'(3) = 2/3
 - f'(5) = 0
 - f'(4) = 2/3
 - $\int_{-6}^{-5} f(x) dx = 2$
 - $\int_{-5}^{2} f(x) dx = -7/2$
 - $\int_1^4 f(x)dx = -7/6$
 - $\int_0^6 f(x)dx = 0$
 - $\int_{-6}^{2} f(x)dx = 2 6 + 3 \frac{1}{2} = -\frac{3}{2}$
 - $\int_{-3}^{4} f(x) dx = 5/6$
 - $\int_1^3 f(x)dx = -7/6$
 - $\int_{-6}^{6} f(x) dx = -3/2$