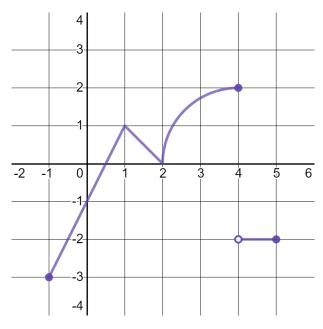
## Fundamental Theorem of Calculus Quiz

Name: \_\_\_\_\_\_ Due Date: May 19, 2020

1. Consider the function

$$g(x) = \int_{-1}^{x} f(t)dt$$

where f is given below (made of lines and circle segments).



(a) Determine the absolute maximum and minimum value of g (both the x and g(x) value)

(b) State the x value of any inflection points of g

2. Evaluate the following

(a) 
$$\int_0^1 e^x + \frac{3}{x-2} - \frac{1}{(x+1)^3} dx$$

(b) 
$$\int \frac{2x^2 - x + 4}{1 - 2x} dx$$