Graph: f(x) = 3x – 7 

Find the slope, x-intercept and y-intercept of each linear function above.

Given the following tables, decide if there is a linear relationship between x and y. Explain how you can tell.

(a) (b)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | **y** |  | **x** | **y** |
| **4** | **-3** |  | **6** | **12** |
| **6** | **0** |  | **7** | **14** |
| **8** | **3** |  | **8** | **16** |
| **10** | **6** |  | **9** | **18** |

(c) (d)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | **y** |  | **x** | **y** |
| **-2** | **-5** |  | **-2** | **1/4** |
| **-1** | **-2** |  | -1 | **1/2** |
| **0** | **-1** |  | **0** | **1** |
| **1** | **-2** |  | **1** | **2** |
| **2** | **-5** |  | **2** | **4** |

Determine whether the given linear functions are increasing, decreasing, or constant.

f(x) = -3x – 7  H(x) = -1.5