**GRAPHS**

**D**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

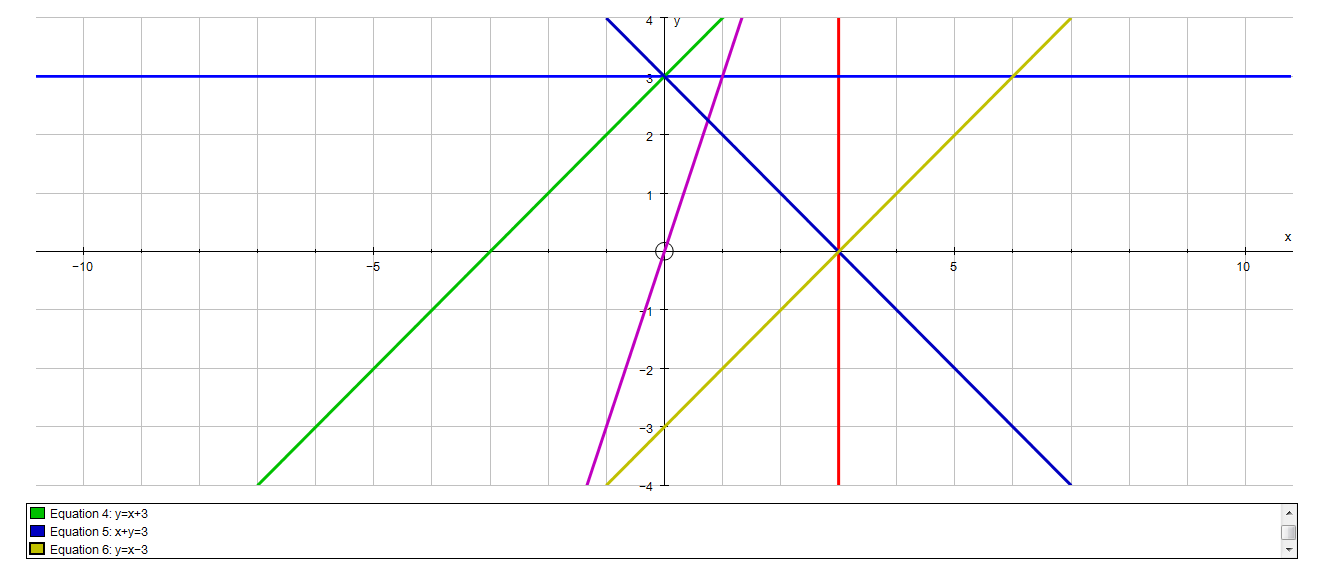
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1. a) Complete the table of values for y = 3x – 2.

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| --- | --- | --- | --- | --- | --- | --- |
| y | -2 | -1 | 0 | 1 | 2 | 3 |
| x |  |  | -2 |  | 4 |  |

b) On the axes, draw the graph of y=3x -2

2. Match the graphs with the correct equations:



**x=3**

**y=x+3**

**y=x-3**

**x+y=3**

**y=3x**

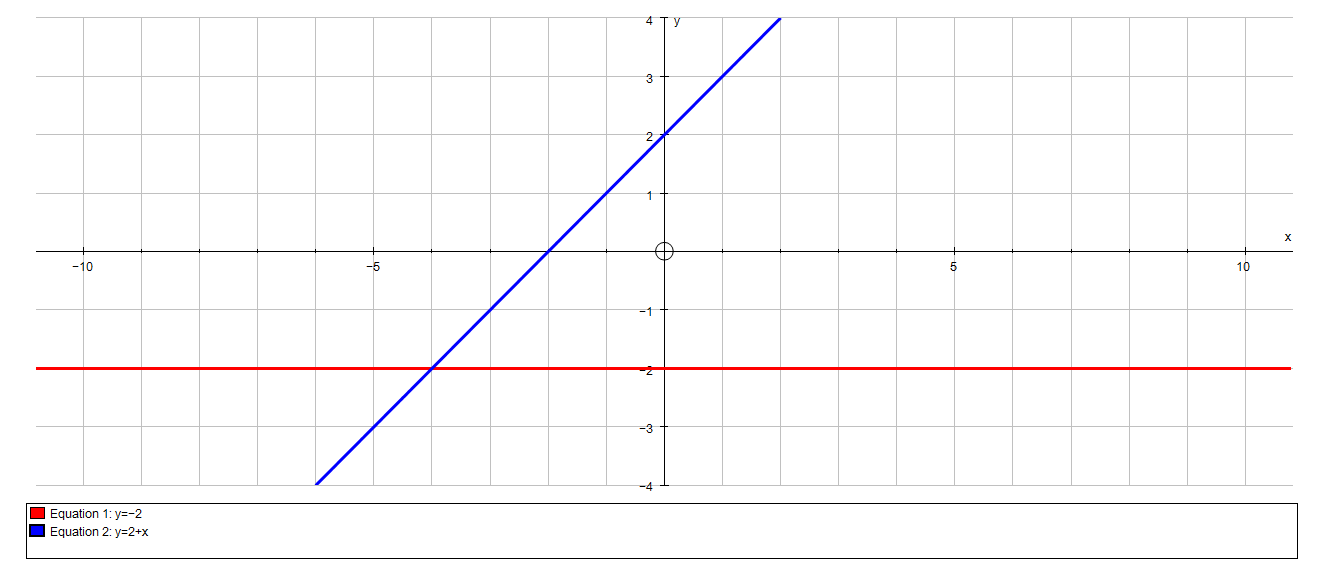
**y=3**

3. a) Find the equations of 3 different linear graphs with a gradient of 2.

b) Find the equations of 3 different linear graphs that pass through -3 on the y axis.

c) Find the equations of 3 different linear graphs that pass through the point (-2,3).

4. i) Explain what is wrong with the following solution:



On the axes, draw the graph of:

i) x=-2 ii) x + y = 2

ii) Find the correct solution

5) Matt leaves home at 0800 and travels

10km in 15 minutes. He the stops for ½

an hour before returning home at a speed

of 60km/h.

a) Draw a distance time graph for Matt’s journey.

b) At what time does Matt arrive home?

|  |  |  |  |
| --- | --- | --- | --- |
| Qu |  | ☺ | ☹ |
| 1a | I can complete a table of values |  |  |
| 1b & 4 | I can draw linear graphs |  |  |
| 2 & 3 | I can find the equation of linear graphs |  |  |
| 5 | I can draw and interpret distance time graphs |  |  |

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| Top tips I must remember for the exam: |
| ☺  ☺  ☺ |
| Types of questions I need to practise more: |
| ☺  ☺  ☺ |