**Year 8 Math**

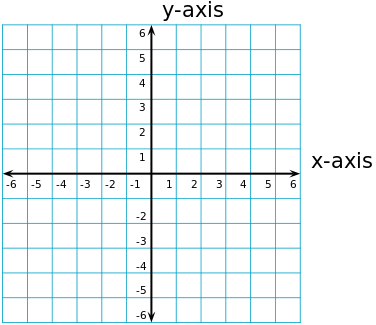
One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y=x+1

[](https://www.google.com.au/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=https%3A%2F%2Fen.wikibooks.org%2Fwiki%2FIntermediate_Algebra%2FThe_Coordinate_(Cartesian)_Plane&ei=ipCGVeLVJI7v8gXyvoKAAg&bvm=bv.96339352,d.dGc&psig=AFQjCNHQoZBIqET6kUgkNYkSh6iwGHv9jg&ust=1434968584273292)

1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

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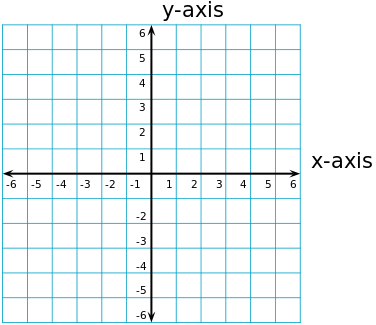
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1. Sketch a graph of the following linear relationship

y = 5x

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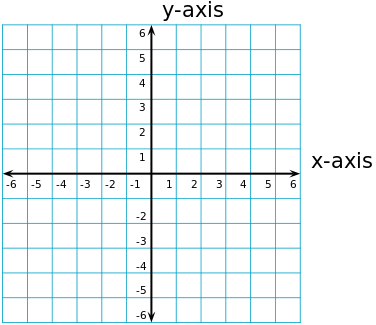
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The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = -3x + 6

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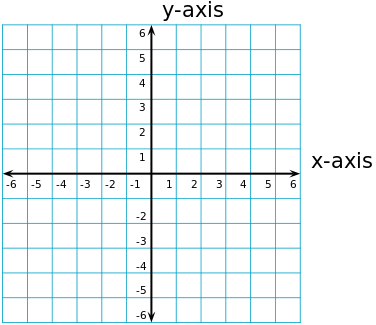
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The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = -x + 4

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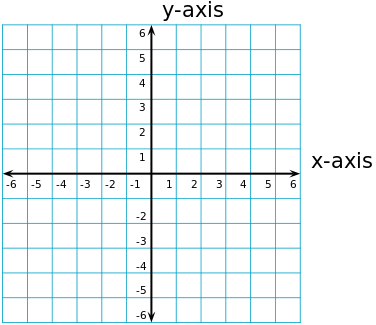
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The other team member to answer the following questions:

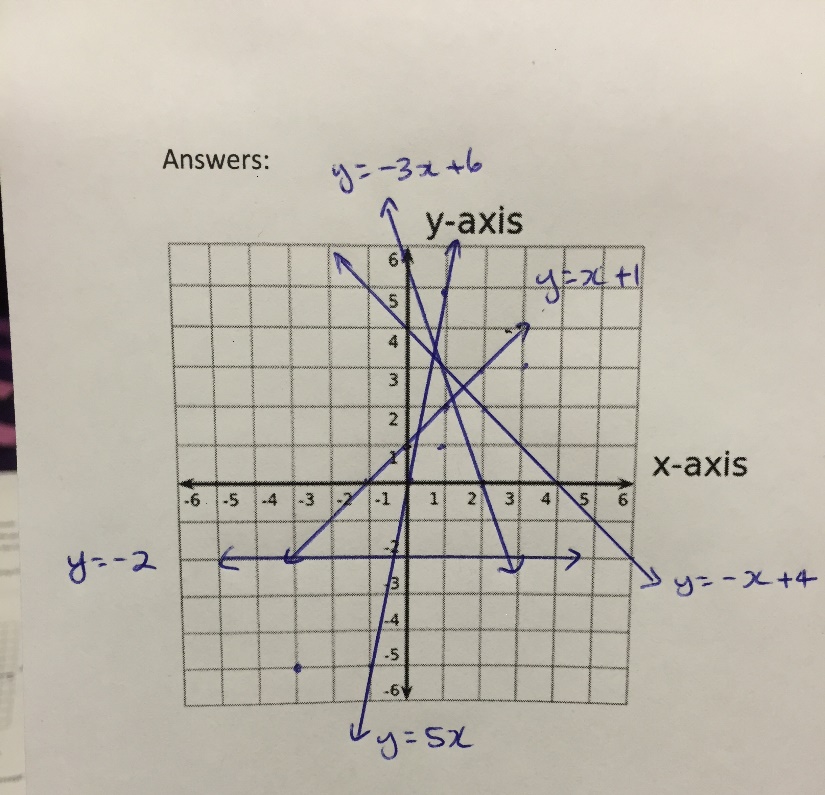
1. Sketch a graph of the following linear relationship

y = -2

[](https://www.google.com.au/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=https%3A%2F%2Fen.wikibooks.org%2Fwiki%2FIntermediate_Algebra%2FThe_Coordinate_(Cartesian)_Plane&ei=ipCGVeLVJI7v8gXyvoKAAg&bvm=bv.96339352,d.dGc&psig=AFQjCNHQoZBIqET6kUgkNYkSh6iwGHv9jg&ust=1434968584273292)

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**Answers:**



**y = x + 1**

x-intercept -1 coordinates (-1, 0)

y-intercept 1 coordinates (0, 1)

Gradient positive

**y = 5x**

x-intercept 0 coordinates (0, 0)

y-intercept 0 coordinates (0, 1)

Gradient positive

**y = -3x + 6**

x-intercept 2 coordinates (2, 0)

y-intercept 6 coordinates (0, 6)

Gradient negative

**y = -x + 4**

x-intercept 4 coordinates (4, 0)

y-intercept 4 coordinates (0, 4)

Gradient negative

**y = -2**

x-intercept none coordinates n/a

y-intercept -2 coordinates (0, -2)

Gradien t zero