

Name: \_\_\_\_\_

Show work needed to justify your answer.

Date: \_\_\_\_\_

HW: # 8: Math IBSL - Standard 8 - Linear Functions

5 points

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2. Find the equation, in gradient-intercept form, of the following lines:
- a the line that passes through the point  $(0, -1)$  and is parallel to the line  $y = 4x - 3$
  - b the line that passes through the points  $(-3, -2)$  and  $(1, 10)$

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- 3 Consider the line passing through the points  $(-3, -4)$  and  $(-5, 2)$ .
- a Find the gradient of the line.
  - b Write down two different equations for the line in point-gradient form.
  - c Verify that the two equations represent the same line.

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4. Write the equation of each of these lines in the general form  $ax + by + d = 0$  where  $a$ ,  $b$  and  $d$  are integers.
- a  $y = \frac{1}{6}x - 3$
  - b The line with gradient  $-\frac{2}{3}$  and  $y$ -intercept  $(0, 4)$ .
  - c The line with gradient  $-1$  that passes through  $(-3, 2)$ .